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LAMONT-DOHERTY SURVEY OF THE WORLD OCEAN

General Editor, Maurice Ewing

Lamont-Doherty Geological Observatory of Columbia University
Palisades, New York 10964

Preliminary Report of Volume 22
U.S.N.S. ELTANIN
Cruises 28-32
March 1967 - March 1968

PART A: NAVIGATION
PART B: BATHYMETRIC, GEOMAGNETIC, AND GRAVITY PROFILES
PART C: SEISMIC REFLECTION PROFILES

Dennis E. Hayes, Manik Talwani, Robert Houtz, and Walter C. Pitman III

GRAVITY MEASUREMENTS ELTANIN CRUISES 28-32

Manik Talwani and Robert R. Meijer II

Technical Report No. CU-1-72
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Preface

The presentation of the geophysical data collected during ELTANIN Cruises 28-32 as a technical report represents the combined efforts of many individuals. The Lamont-Doherty geophysical program has operated on board the ELTANIN under grants provided by the Office of Polar Programs (formerly the U.S. Antarctic Research Program) of the National Science Foundation. The principal investigators on current grants are Dennis E. Hayes and Maurice Ewing and co-investigators are Robert Houtz, Walter C. Pitman III, and Manik Talwani. Although the data collection, reduction and analysis has involved a close collaborative effort between all the Lamont-Doherty investigators, the following individuals have been primarily responsible for the programs of selected geophysical disciplines: Bathymetry, D. Hayes; Geomagnetics, W. Pitman; Gravity and Navigation, M. Talwani; Seismic Reflection, R. Houtz and M. Ewing. John Ewing also served as a co-investigator on the early ELTANIN geophysics grants and his efforts have been instrumental in the establishment of a viable marine seismic program. In addition to the shipboard personnel (identified in the introduction) who collected this data, numerous individuals have made important contributions toward the reduction of the geophysical data and the preparation of the report. The contributions of the following individuals are gratefully acknowledged:

Tom Aitken
Ed Haff
Pat Harniman
Joan Hastings
Randy Meijer
Michael Schneck
Pat Sutherland

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INTRODUCTION

The purpose of this report is to present navigation, bathymetric, gravimetric, and geomagnetic data and seismic reflection profiles collected aboard U.S.N.S. ELTANIN during cruises 28-32 inclusive. These data and those obtained on other U.S.N.S. ELTANIN cruises constitute a significant portion of all existing marine geophysical measurements for high latitudes in the southern ocean. Portions of the data presented here have not yet been studied in detail, although many segments have been used in publications. Because of the broad interest in marine geophysical observations, the data are being made available in preliminary form. A substantial effort on the part of many individuals has gone into the collection and reduction of approximately 44,000 nautical miles of data summarized here.

The main contents of the report: Introduction; PART A: Index maps and tabulations of navigational information; PART B: Profiles of topography, free-air gravity anomaly and total magnetic field intensity anomaly plotted against distance along the ship's track, and including time and navigation annotations; PART C: Seismic reflection profiles; Selected comments on the gravity data.

One set of index maps shows the ship's track and indicates distance along the track by means of tick marks at intervals of 100 nautical miles. A second set of index maps includes 100 mile tick marks and ticks and annotations of the time of the first position fix of each day. These latter maps key small sections of track which appear along with selected isobaths on maps at the scale ($\sim$1:12 million) for convenient overlay of the World Map Series of the Hydrographic Office, H.O. Misc.- 15-254. By using these maps and the lists of navigational

data, the geophysical profiles and the seismic profiles may be easily cross-referenced.

The profiles of topography are plotted at a vertical exaggeration of 100:1. The units of depth used are nominal fathoms (1/400 sec. reflection time). Residual geomagnetic anomalies are plotted in gammas (10^5 gammas = 1 oersted). They are obtained by subtracting the regional magnetic field from the observations of the total magnetic field as described in the section on data reduction. Free-air gravity anomalies are plotted in milligals (1 mgal = 10^{-3} cm/sec^2). The topographic, geomagnetic, and gravity profiles are plotted with respect to distance, which is annotated at intervals of 200 nautical miles near the bottom of each profile. In addition, tick marks shown above the distance scale indicate the distance at which any change in course or speed occurred. The corresponding course and speed between changes and the coordinates at the points of change are annotated above the distance scale listings. Navigational changes which occur too frequently to be annotated in the space available are indicated only by tick marks. Listings of the entire detailed navigation appear in Part A. The course and speed apply to the time interval following each entry. All times are Greenwich Mean Time (GMT).

Seismic profiler data are presented as reduced photocopies of the original recordings. The vertical scales on the left side and right side of each page are seconds of two-way reflection time and nominal fathoms respectively. The true sediment thickness below the seafloor is a function of sediment velocity, which increases with depth and varies with the sediment type. If a constant sediment velocity of 2.0 km/sec is assumed, each second of reflection

time represents one kilometer thickness. This assumed sediment velocity value provides a good approximation for the Pacific in the areas of thin sediment cover, but yields erroneously small thicknesses in some types of sediment (e.g. calcareous pelagics), and in thick or very old sediments (Houtz, 1970).

The time of day and ship's heading appear along the bottom of the profiler sections. The courses shown are courses steered as taken from shipboard logs. These courses generally do not agree precisely with the tabulated navigational data, which are based on the course and speed made good. Each fifth profiler sheet number appears at the top of the pages; the intervening sheets are bracketed by two black dots. Major time-breaks in the profiler records are indicated by slanted lines in the lower time scale. Double horizontal lines appear when the ship's heading changes too frequently to be conveniently annotated.

Instrumentation

The Navy satellite navigation system (Guier, 1966) was used to obtain frequent and precise fixes. The ship's electromagnetic (E-M) log and gyrocompass were used to interpolate the ship's track between satellite fixes by employing the computer techniques of Talwani (1969). These interpolated ship positions should be generally accurate to better than 0.5 nautical mile, although errors of several nautical miles or more are possible for interpolated positions obtained under extremely unfavorable current conditions.

A 12 KHz transducer with an effective half angle of 30° was used with a Times Facsimile recorder for the precision depth measurements. Relative depths can be resolved to about one fathom (1/400 sec of reflection time) in any depth in regions of low to moderate relief.

Side echoes are common in areas of high relief and the resolution of small amplitude relief is extremely difficult in such areas.

A Graf-Askania seagravimeter (Gss-2) mounted on an Anschutz gyro-stabilized platform was used for all gravity measurements. This system and associated analogue cross-coupling correction devices is described by Talwani (1970), by Talwani et al. (1967), and by Talwani and Meijer (this report). The absolute accuracy of the system under normal sea conditions in the open ocean is estimated at about $\pm$ 3 mgal as discussed by Talwani and Meijer (this report). The relative accuracy of measurements along tracks with constant heading and steady sea-state conditions is somewhat better.

A varian proton precession magnetometer was used for all magnetic measurements. The instrument was towed approximately 800 ft. astern of the ship. The accuracy of this type of instrument has been discussed in many publications (e.g. Heirtzler, 1961; Bullard and Mason, 1963) and is generally accepted to be $\pm$ 10-15 gammas. Data were recorded continuously on an analogue strip chart recorder and also digitally on punched paper tape at a one minute sampling interval.

The sound source of the seismic profiling system is a free-firing (410 cm^3) airgun with a repetition rate of about 12 sec. at 140 bars air pressure (Ewing and Zaunere, 1964). The signal is received by a towed hydrophone array, pre-amplified and fed into a two-channel drum recorder (Ewing and Tirey, 1961). The signal is recorded as variable-density profiles.

Data Reduction

All bathymetric, gravimetric, magnetic, and navigational data were digitized and reduced with the aid of an IBM 1130 digital computer and on-line Calcomp plotter. The entire data processing procedure including program listings is given in Talwani (1969) and is therefore outlined only briefly. The navigational information (time, latitude, longitude) is first put in digital form and stored in the computer. All time data series (depth, total magnetic field, gravity field) are then reduced in terms of geographic coordinates and distance along the track, by interrogating the digitized navigation, using time as the dependent variable.

The precision echo-grams were digitized on a Thomson digitizing table at an irregular sampling interval of 1 to 15 minutes, depending on the topographic relief. The data were then interpolated to regular six minute sampling intervals and the topographic profiles were plotted from the six minute data points. This constitutes about one sounding per nautical mile. More detailed topographic relief cannot be usefully resolved on plots made at the scales presented here. Slope corrections have not been applied and the soundings plotted here have not been corrected for variations of sound velocity in water. The latter corrections are of the order of 100 fm in 3000 fm of water. The bathymetric reduction programs allows the user the option of applying sound velocity corrections according to the Matthews Tables (1939).

The gravity data were introduced into the computer by digitizing analogue records of the sum of gravity beam trace and the calibrated cross-coupling correction. Data points were

selected at unequal time intervals frequently enough to describe the analogue trace. The average sampling interval was about 10 minutes. The geographic coordinates, track distances, Eotvos correction, and theoretical gravity (from the International Formula) were then computed, as before, using time as the dependent variable.

The gravity system provides an independent check on the inferred east-west velocity of ship (i.e. Eotvos effect). Considering this factor, careful editing of the navigation was done in arriving at the final, internally consistent navigation. The shipboard observations were tied to known land-based gravity base stations at each port.

The magnetometer data were introduced into the computer by either digitizing the analogue records or by using the carefully edited digital punched tape--depending on the quality of the respective records. The geographic coordinates and track distances were computed for each sampling point, again using the navigational data and time as the dependent variable. The regional field at each navigational point was determined, using a modified computer program of the Goddard Space Flight Center, which describes the regional field by spherical harmonics of degree and order 11 (Cain et al., 1964). The regional field at each geomagnetic sample point was then obtained by linear interpolation of the field determined at navigation points. Since navigation points were rarely separated by more than a few hours (or a few tens of miles) and since spatial changes of the regional field are small over short distances, this approach introduces no significant error in the determination of the regional field at each individual sample point.

No indications have been given regarding magnetically quiet or disturbed days and no

corrections have been applied for any diurnal variations of the magnetic field. The latter variations are of the order of 50 gammas per day in the area of interest and would have long apparent wavelengths not likely to be confused with anomalies arising from sources in the earth's crust. Secular variations are effectively removed as part of the regional field by considering the time derivatives of the harmonic co-efficients which define the regional field.

Several papers have been published that draw on the bathymetric, geomagnetic and seismic reflection data presented in this report. These papers are listed with the selected references. In an attempt to first accumulate significant geographic coverage and to incorporate the surface ship gravity data with gravity information obtained from satellites only a few publications have appeared that draw on the gravity data herein. Therefore, a brief commentary on the ELTANIN cruises 28-32 gravity data is given by Talwani and Meijer (this report).

Lamont-Doherty Geological Observatory Personnel - Geophysics Party
Aboard U.S.N.S. ELTANIN (Cruises 28-32)

Cruise #28 - 10/III/67 to 18/V/67
Melbourne, Australia to Valparaiso, Chile
(via Wellington, New Zealand)

Robin Falconer	Frank Shepard	
*Larry Neuman	*Manik Talwani	} to Wellington only
William Brown	John Bastin	} to Wellington only

Cruise #29 - 2/VI/67 to 1/VIII/67
Valparaiso, Chile to Brisbane, Australia

Luis M. Garcia	William Brown
Te-hou Tang	Dennis Rosmini
*Larry Neuman	

Cruise #30 - 12/VIII/67 to 21/IX/67
Brisbane, Australia to San Francisco, U.S.A.

*Larry Neuman	Bruce Adams
Luis Garcia	

Cruise #31 - 15/XI/67 to 19/XII/67
San Francisco, U.S.A. to Dunedin, New Zealand

Norman B. Kay	William D. Bolles
Frederick W. Koebrich	*Marek Truchan

Cruise #32 - 30/XII/67 to 29/II/68
Dunedin, New Zealand to Wellington, New Zealand

Michael Connel	*Robert R. Meijer II
Norman B. Kay	J. R. Williams
Frederick W. Koebrich	

*Party Chief

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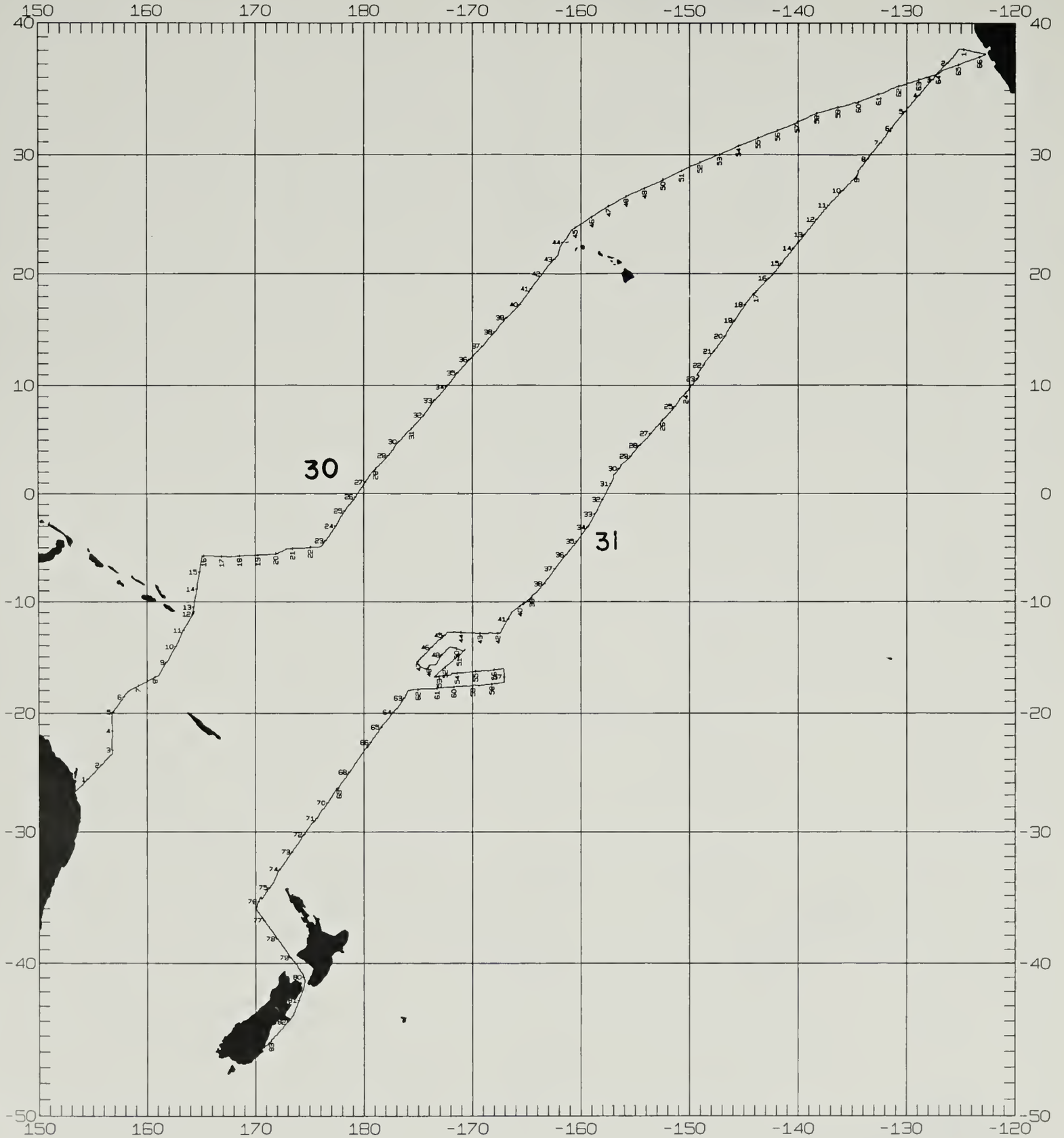
PART A - NAVIGATION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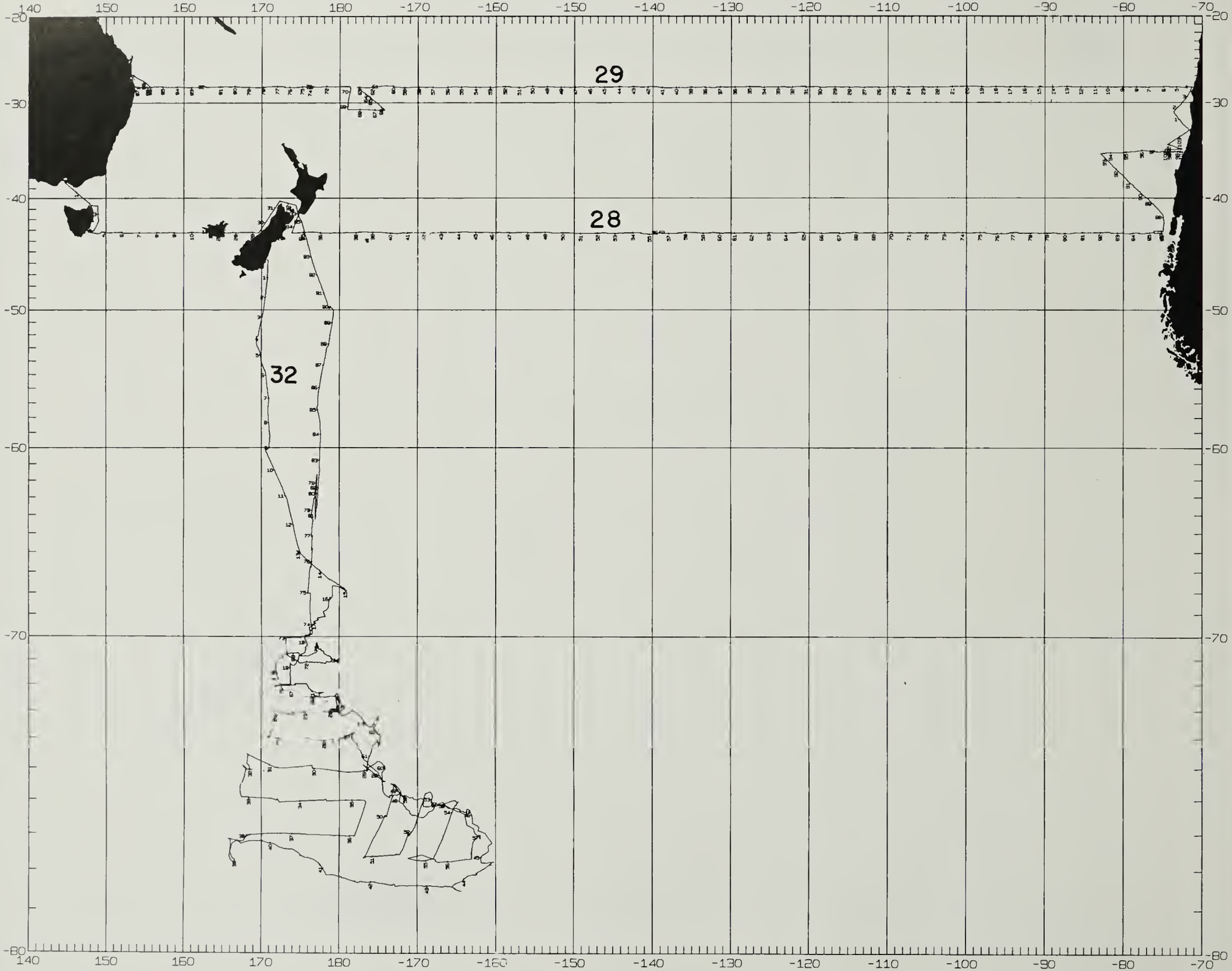
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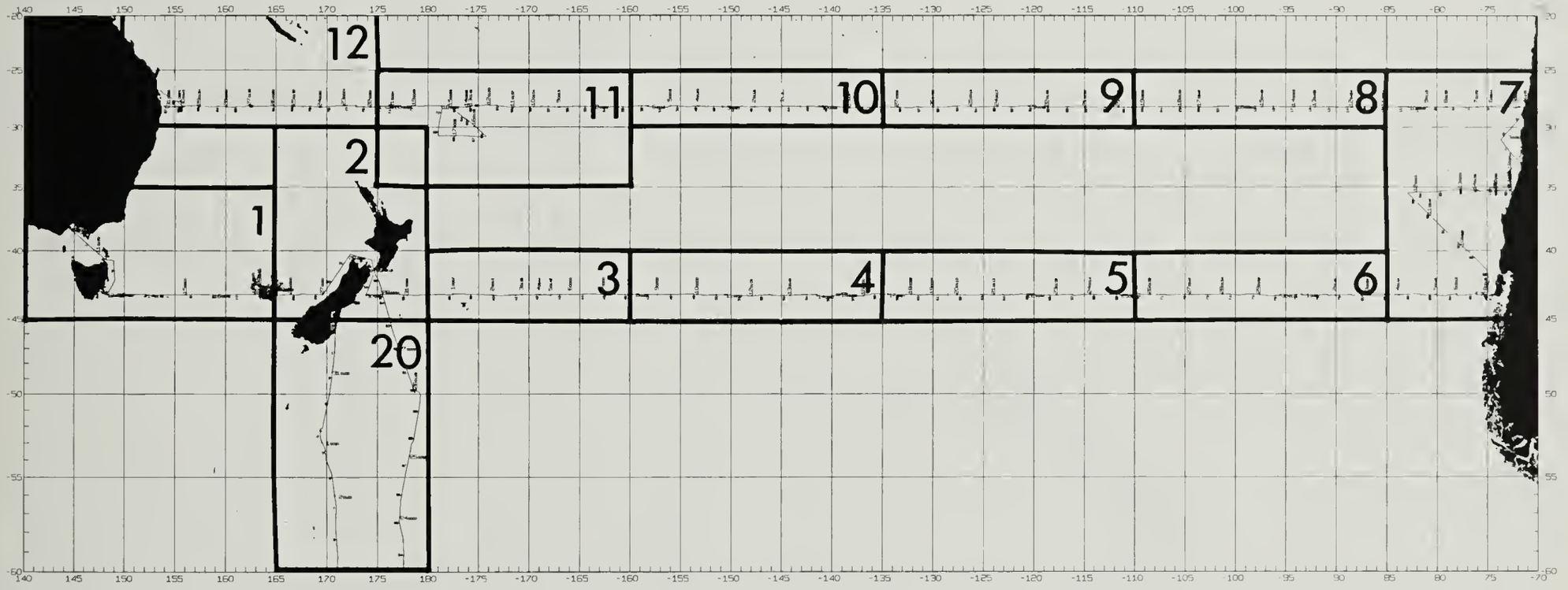
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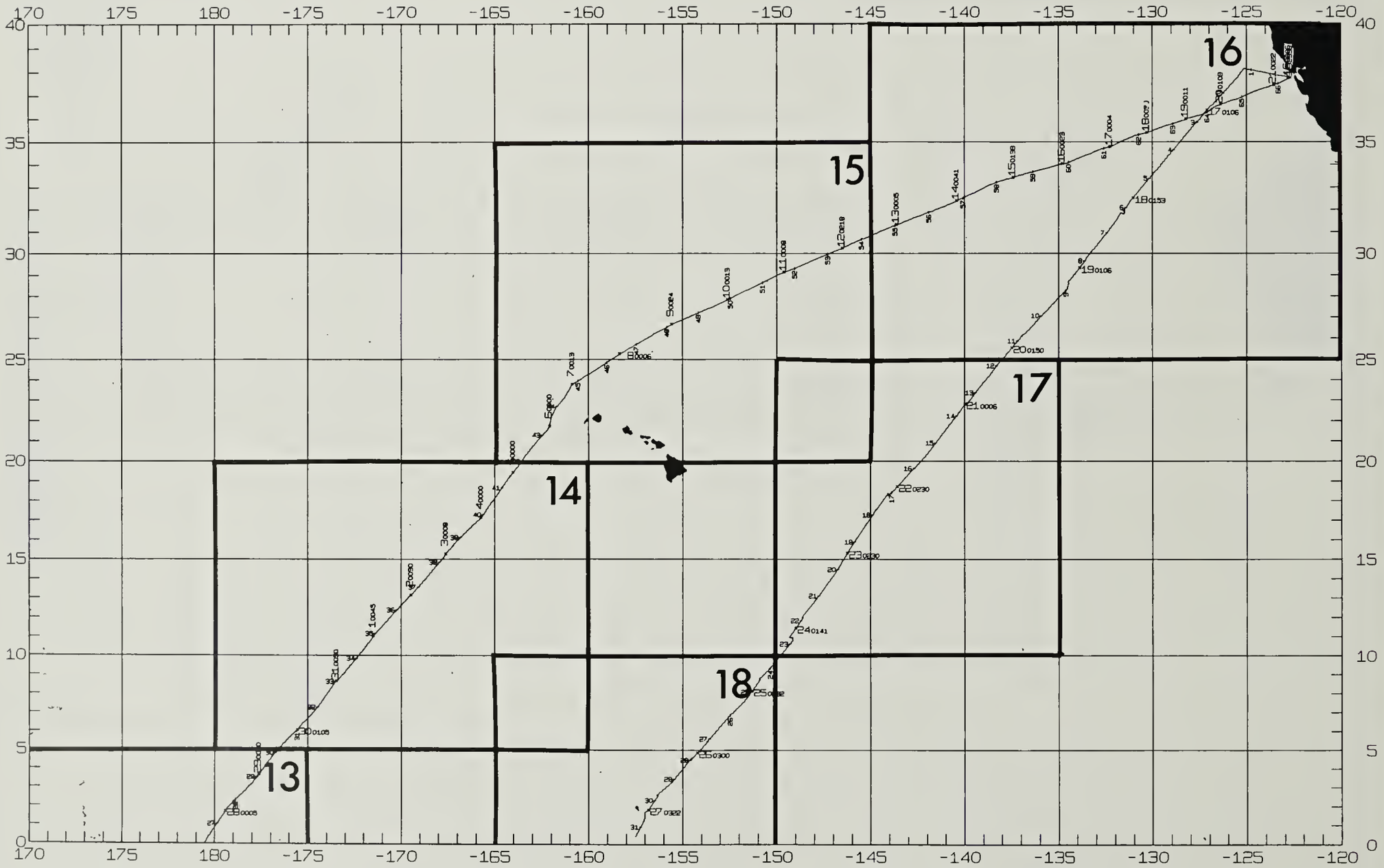
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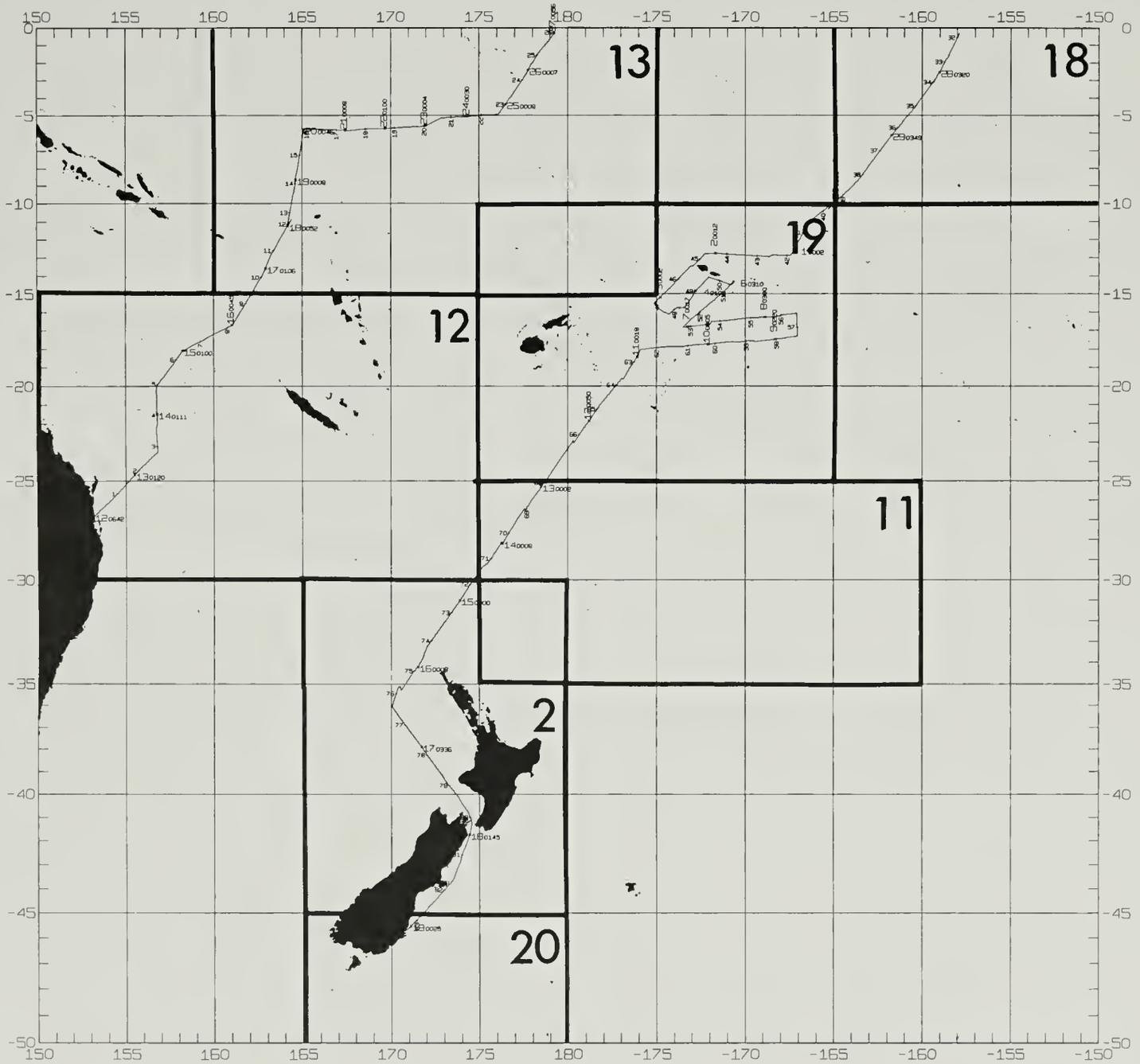
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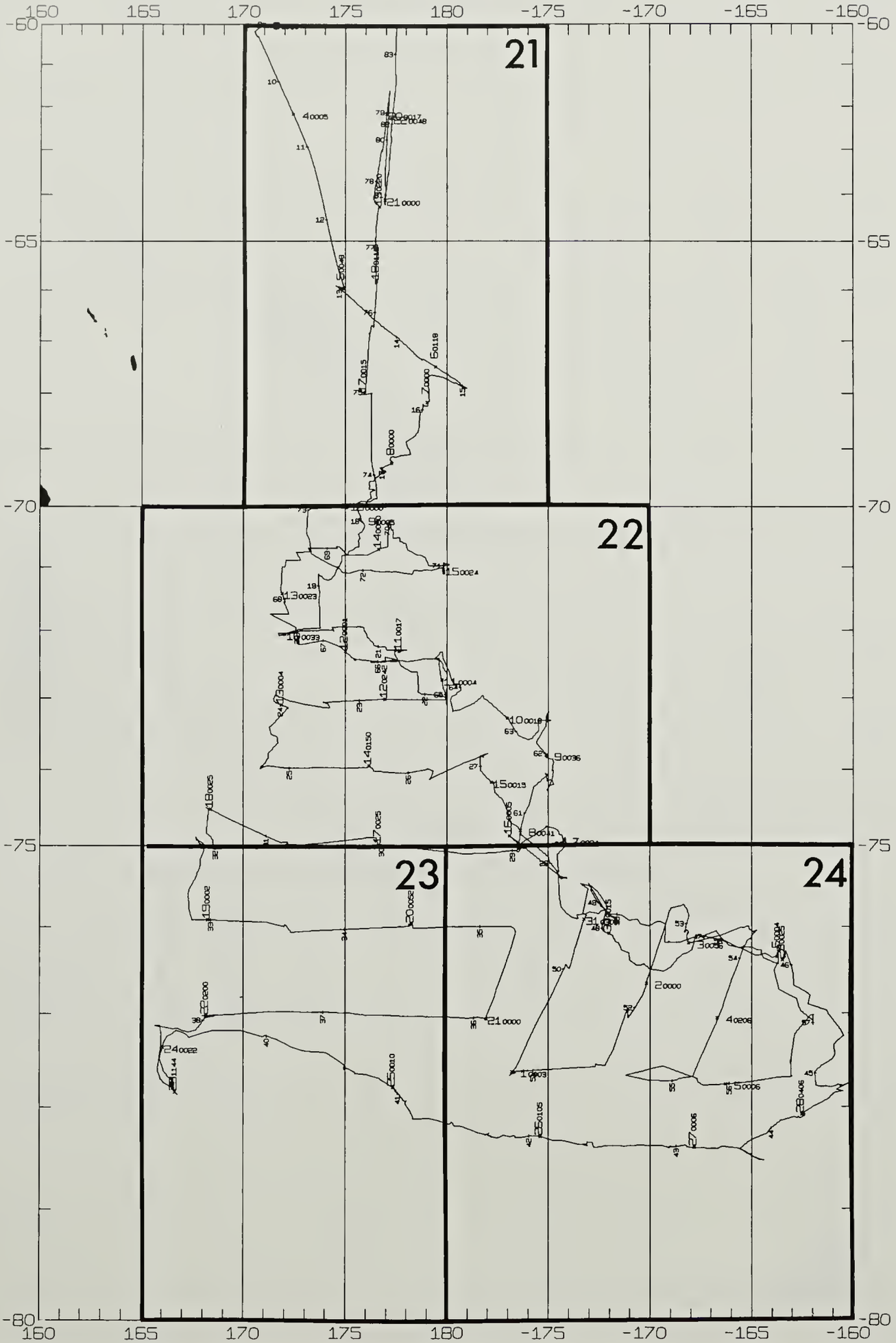
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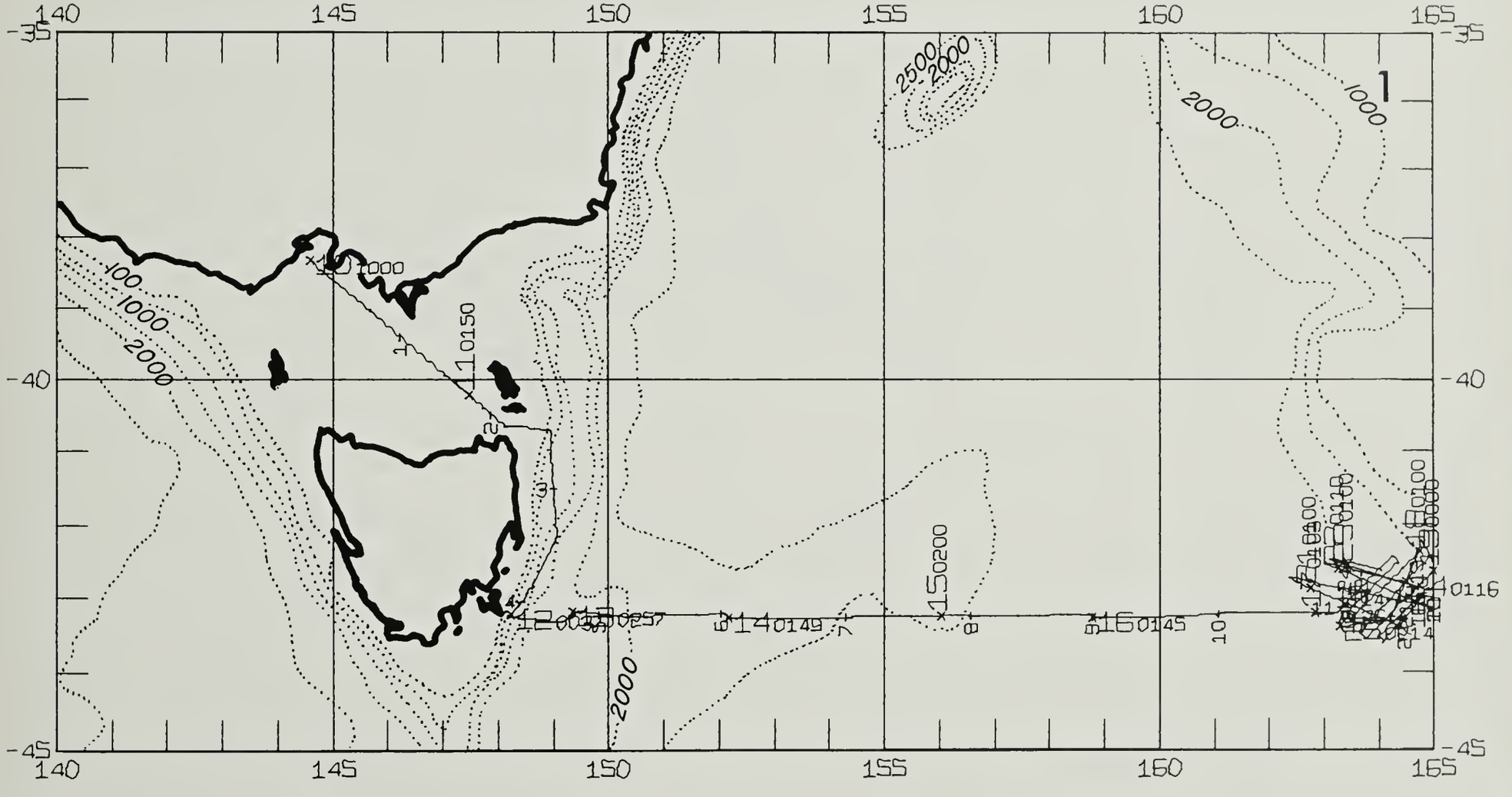
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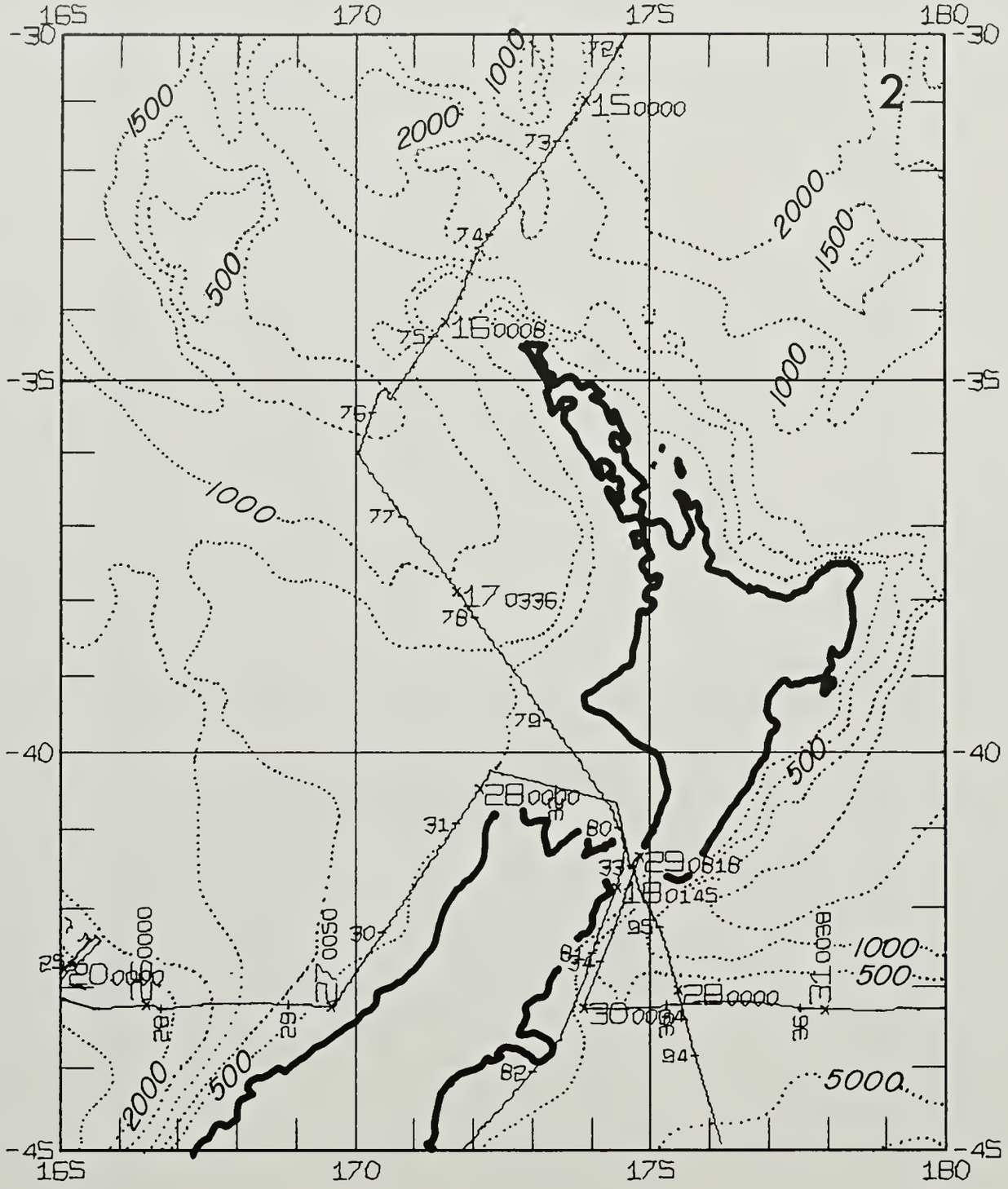
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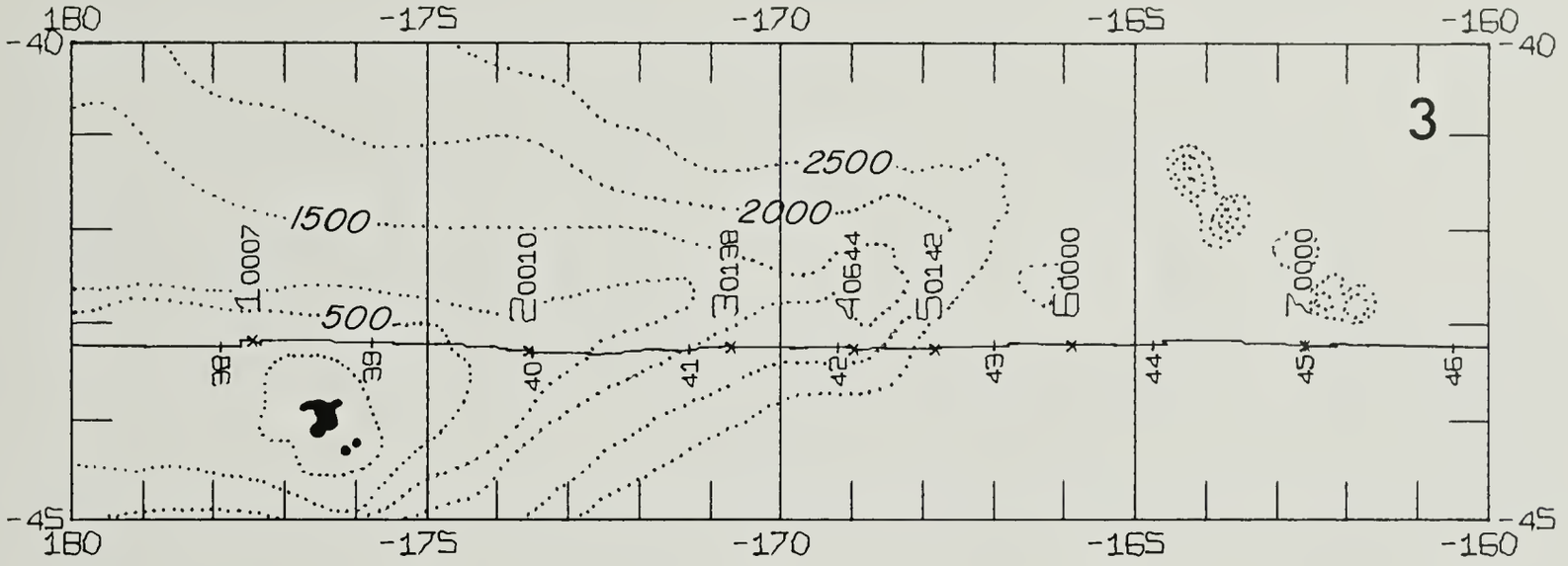
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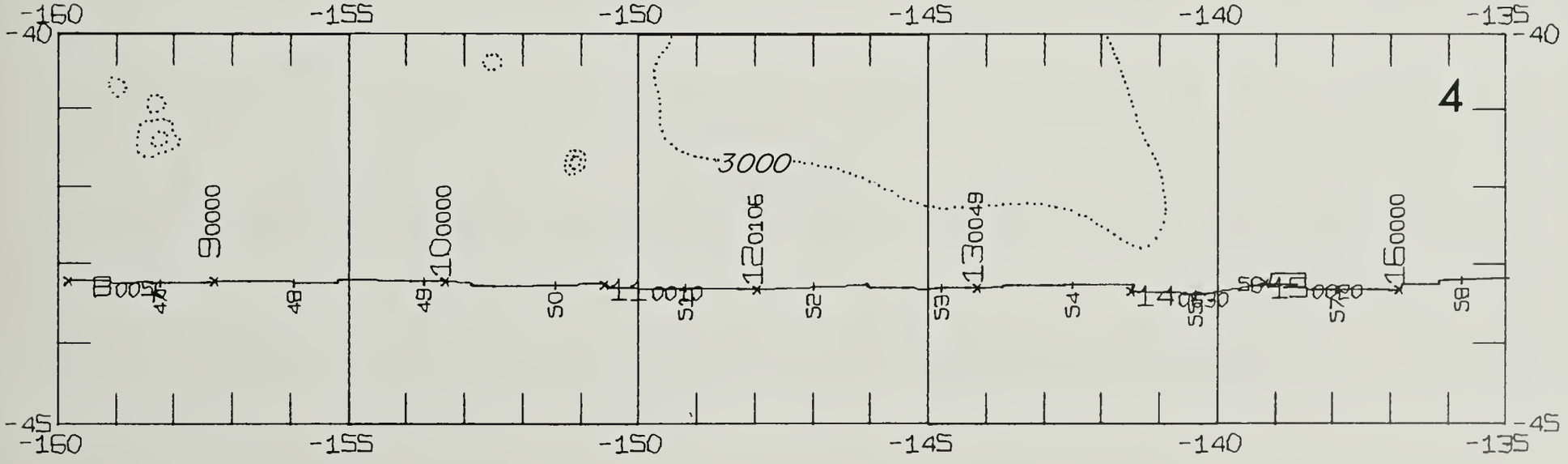
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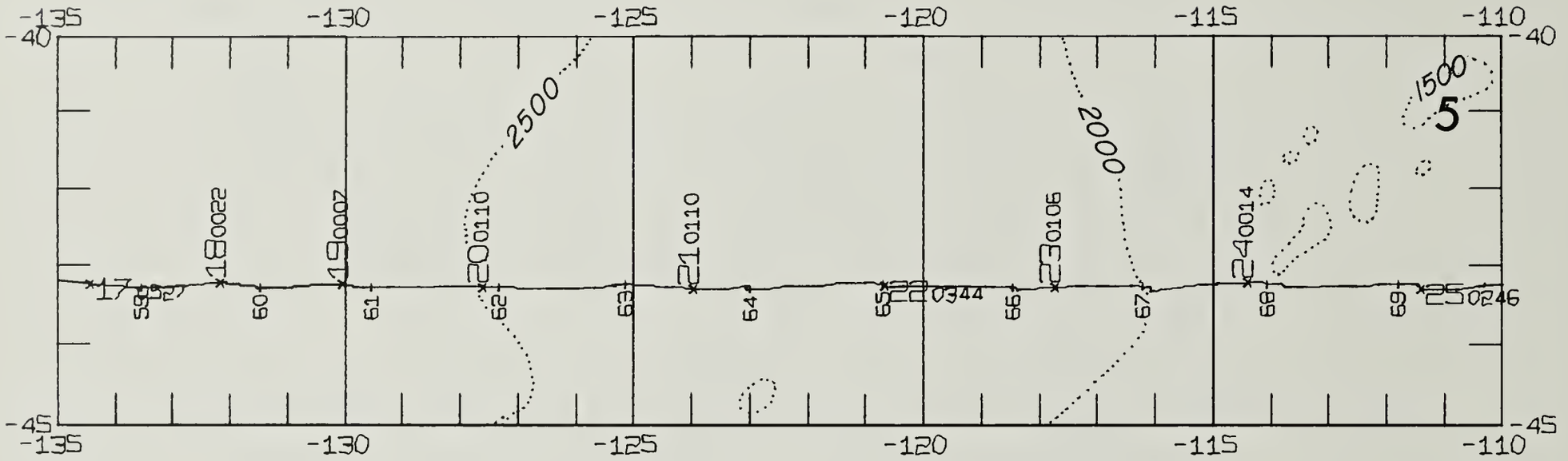
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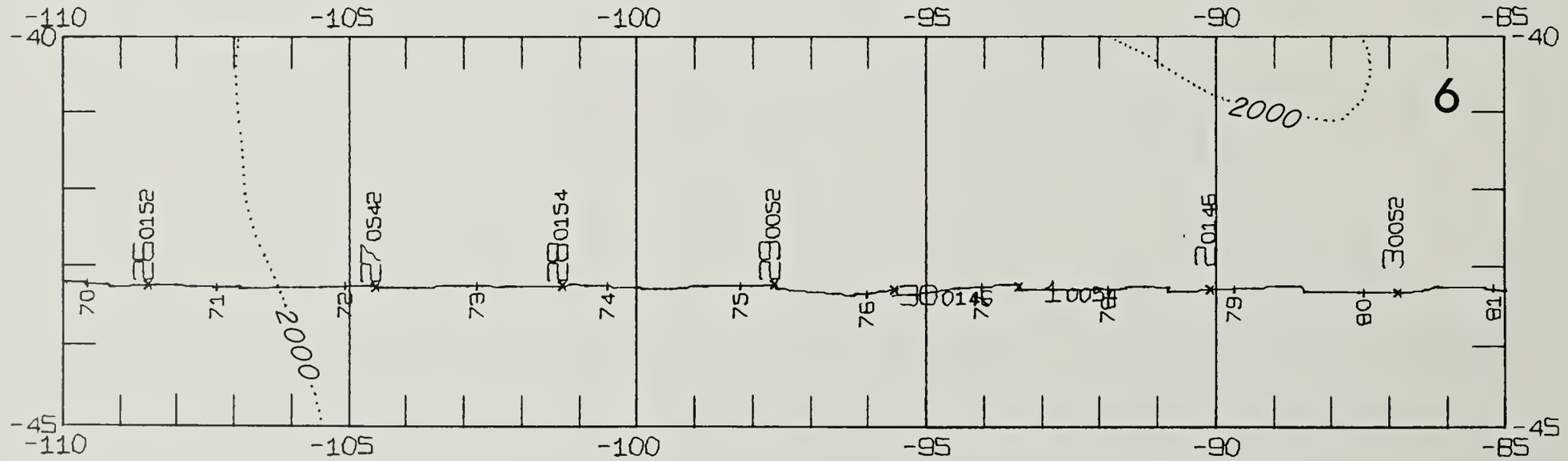
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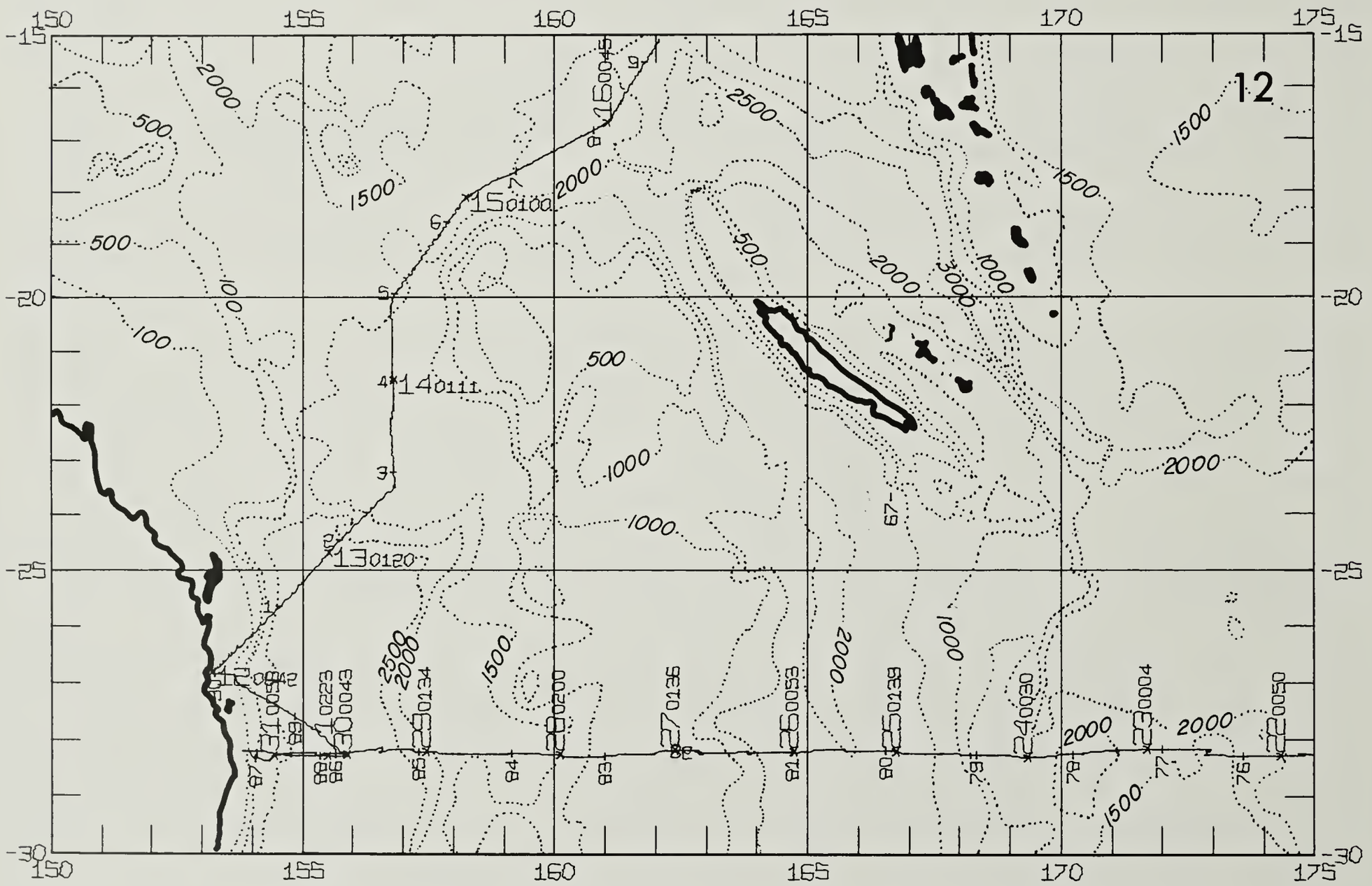
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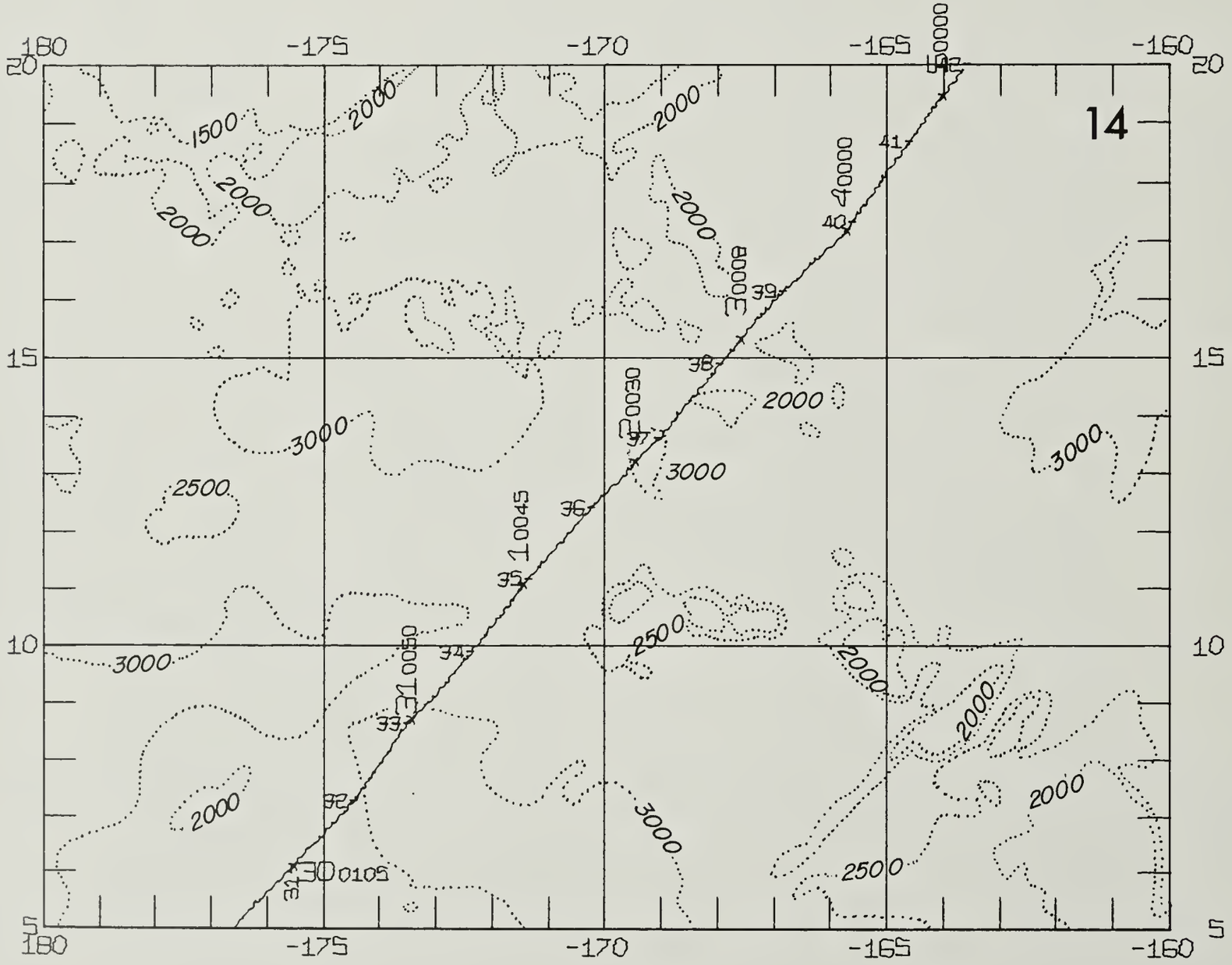
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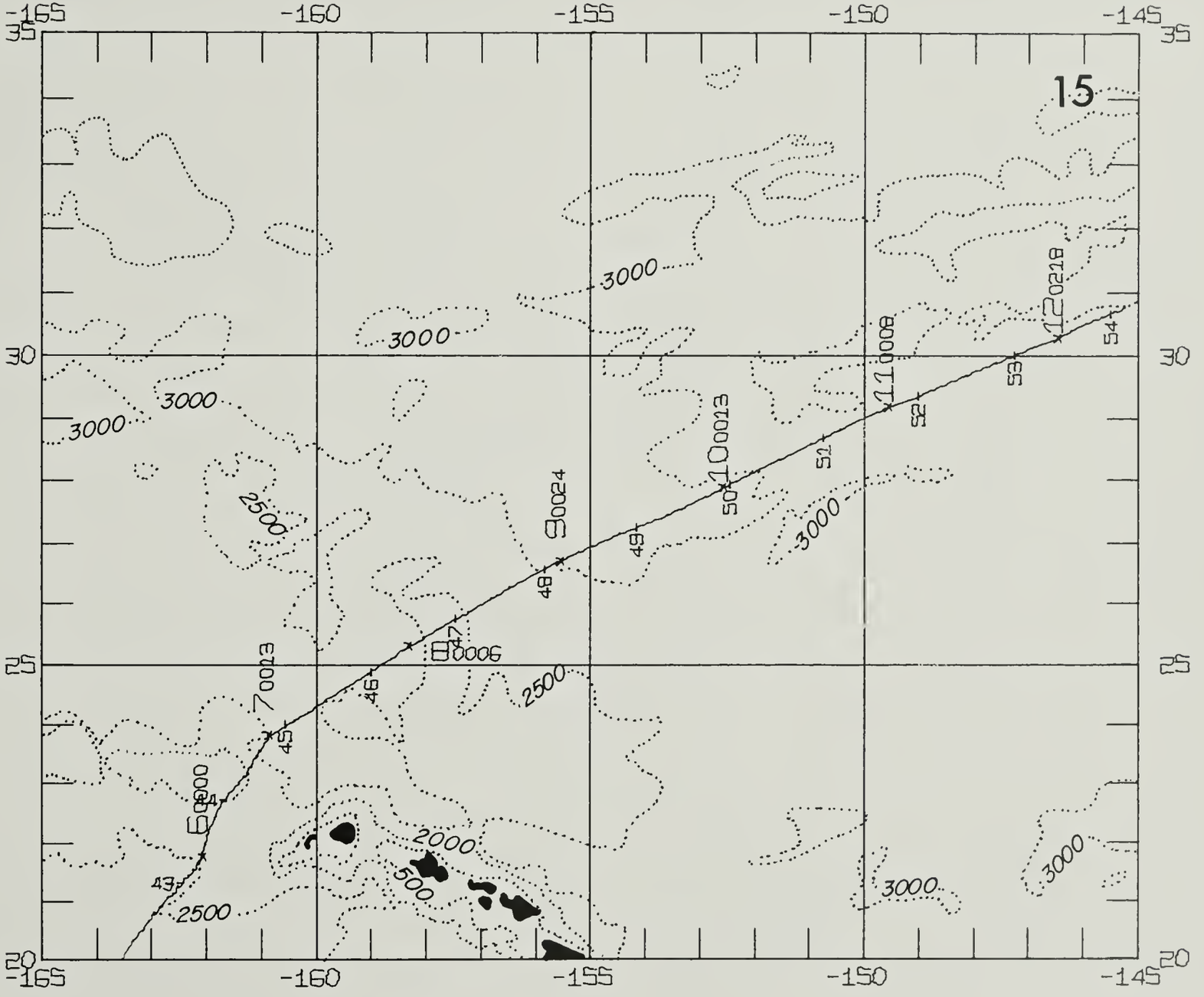
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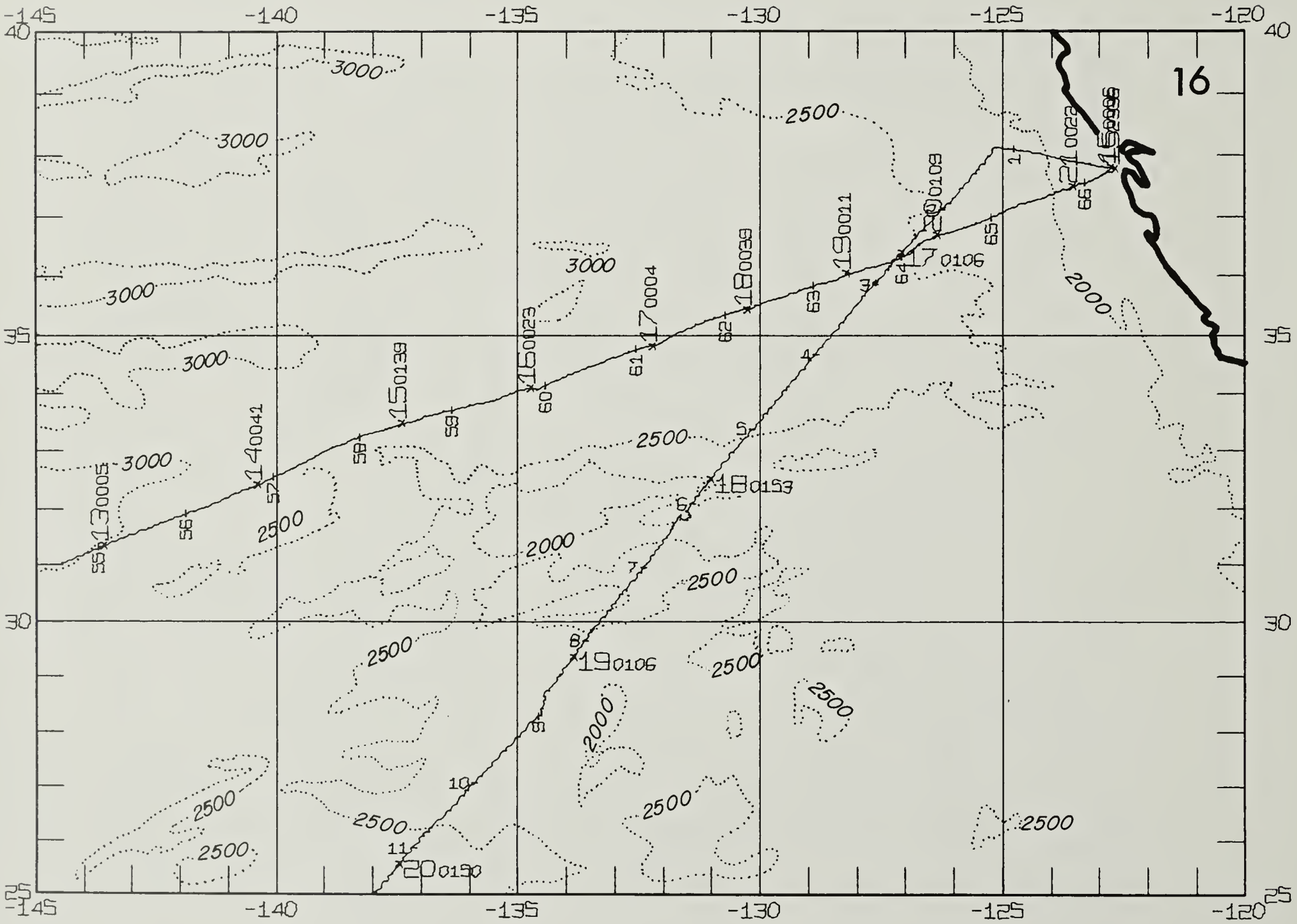
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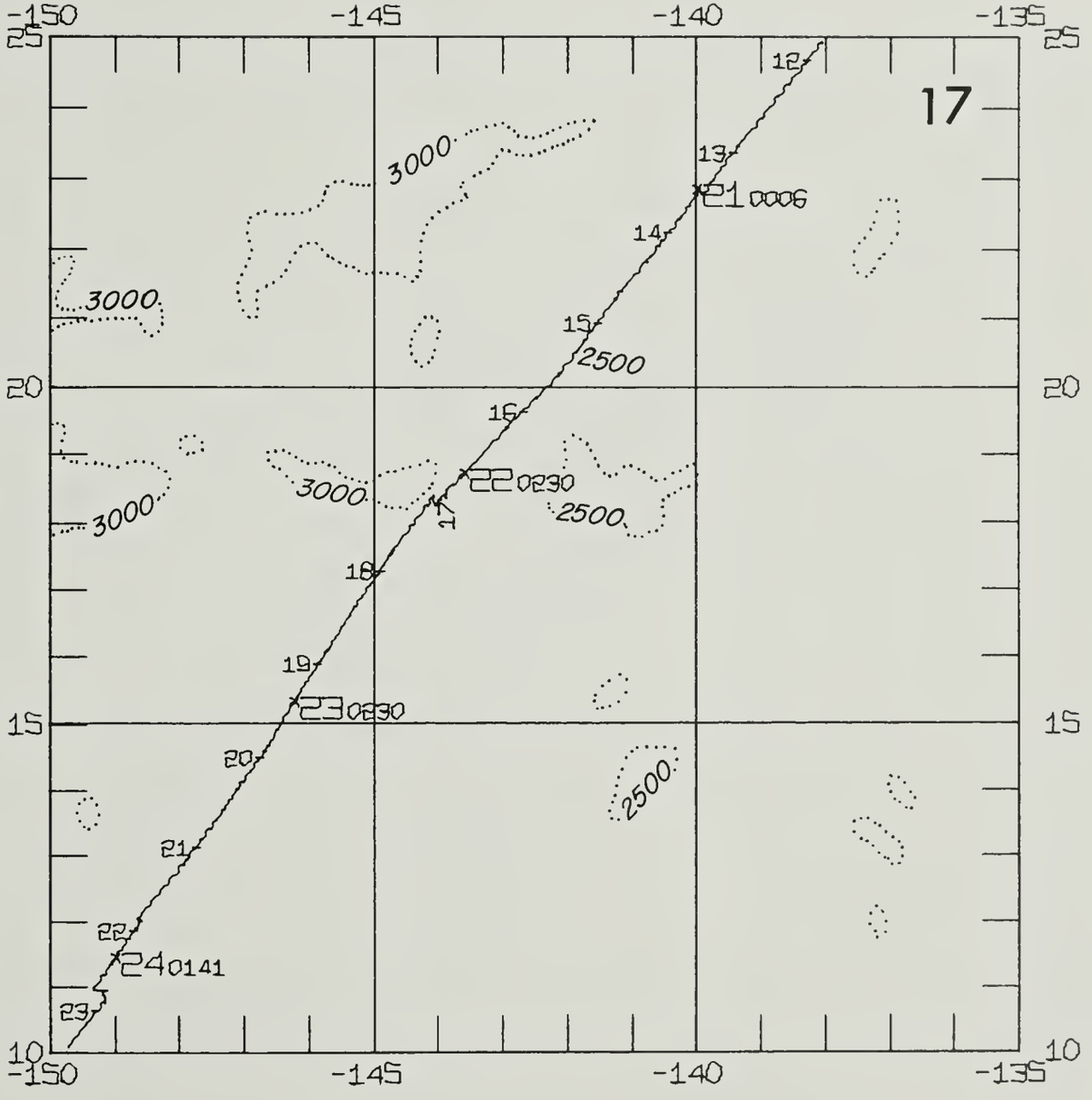
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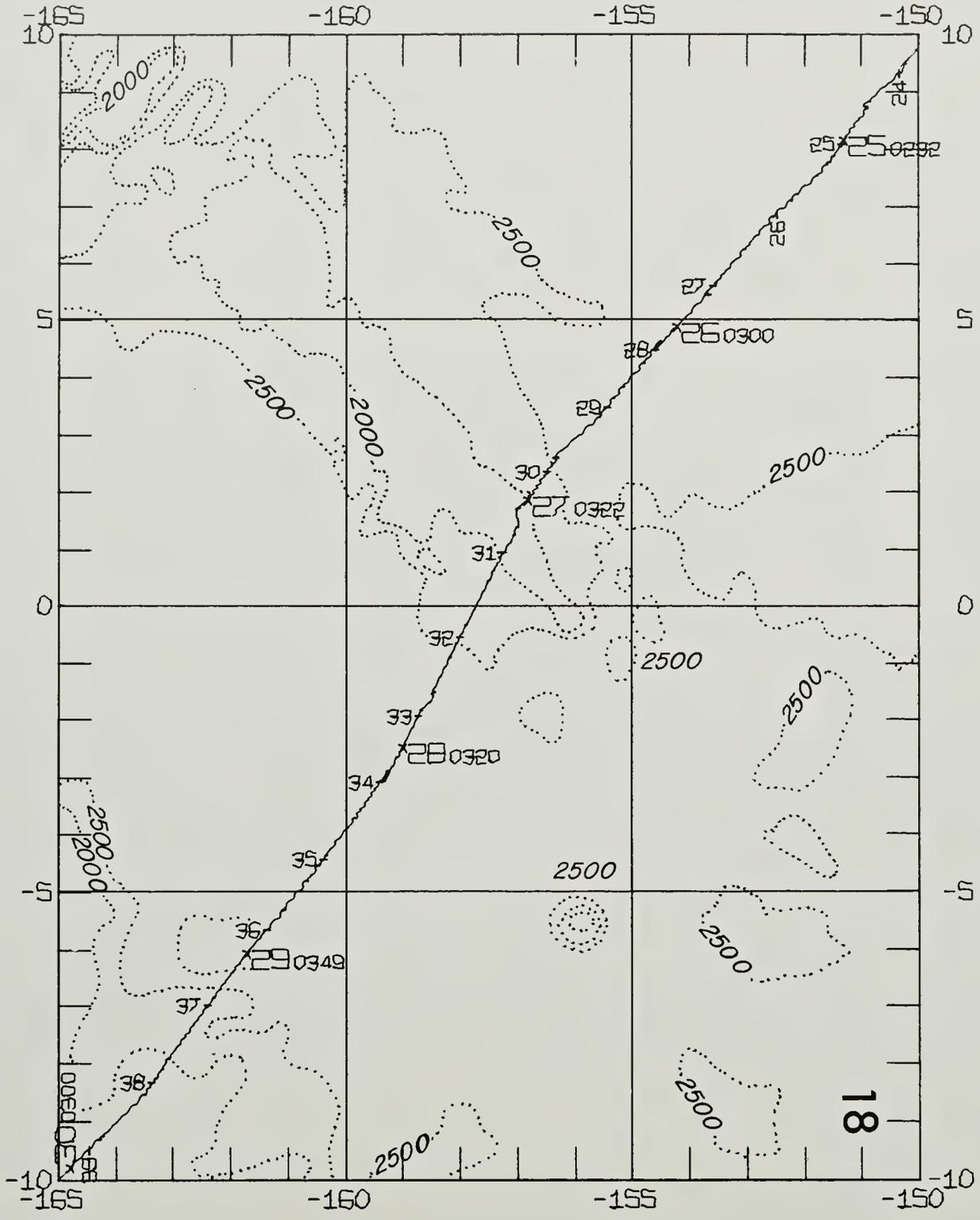
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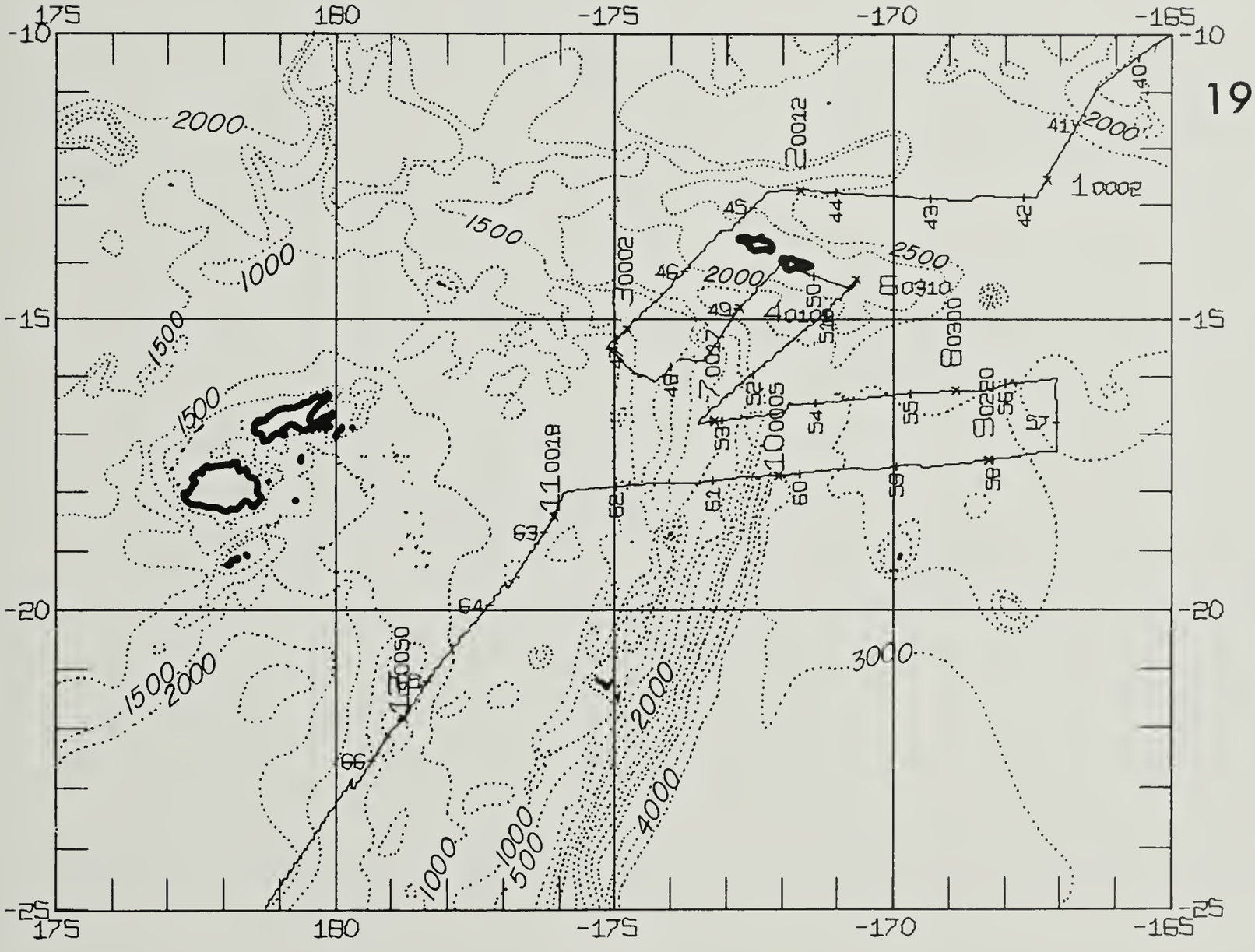
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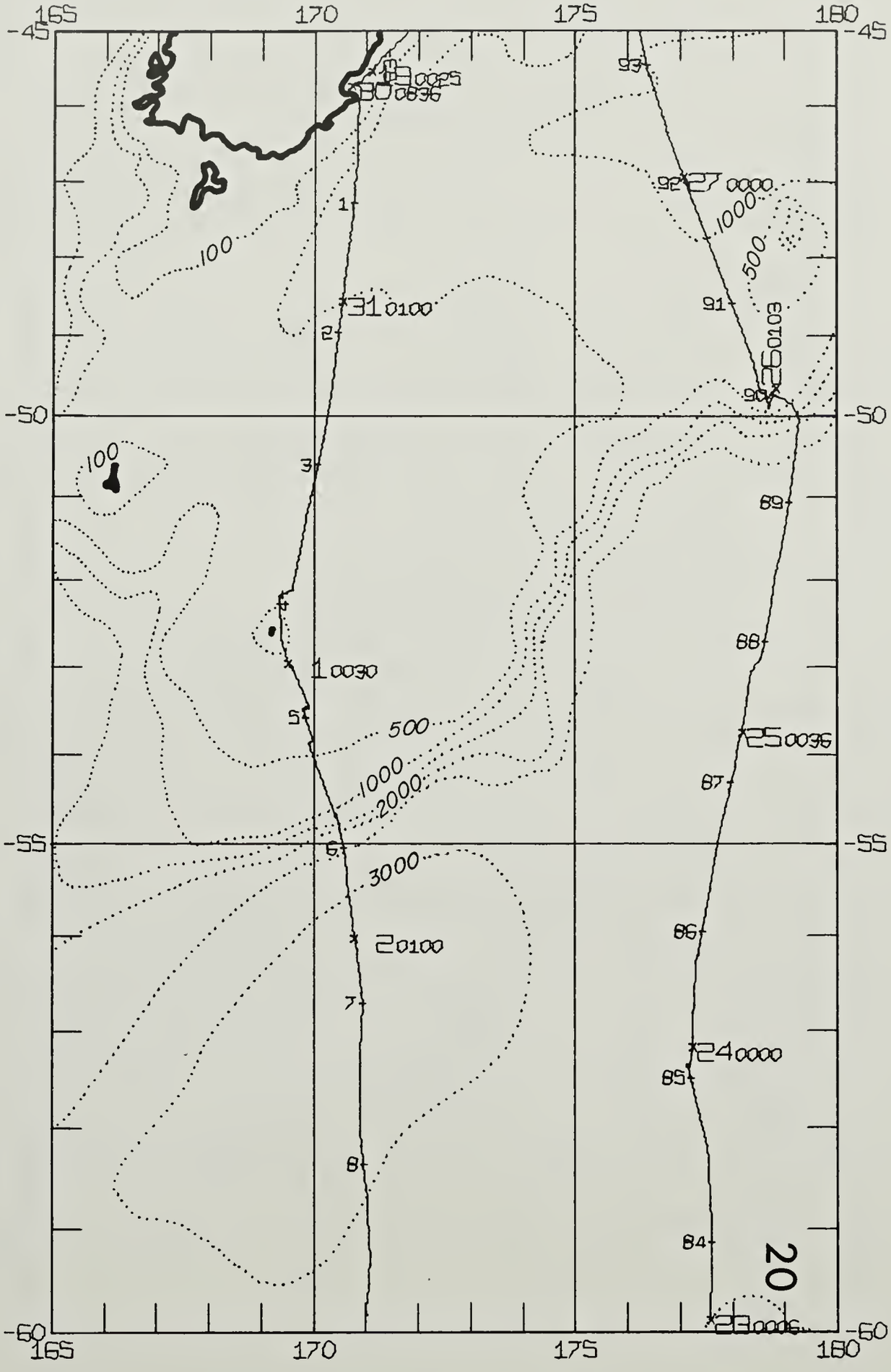
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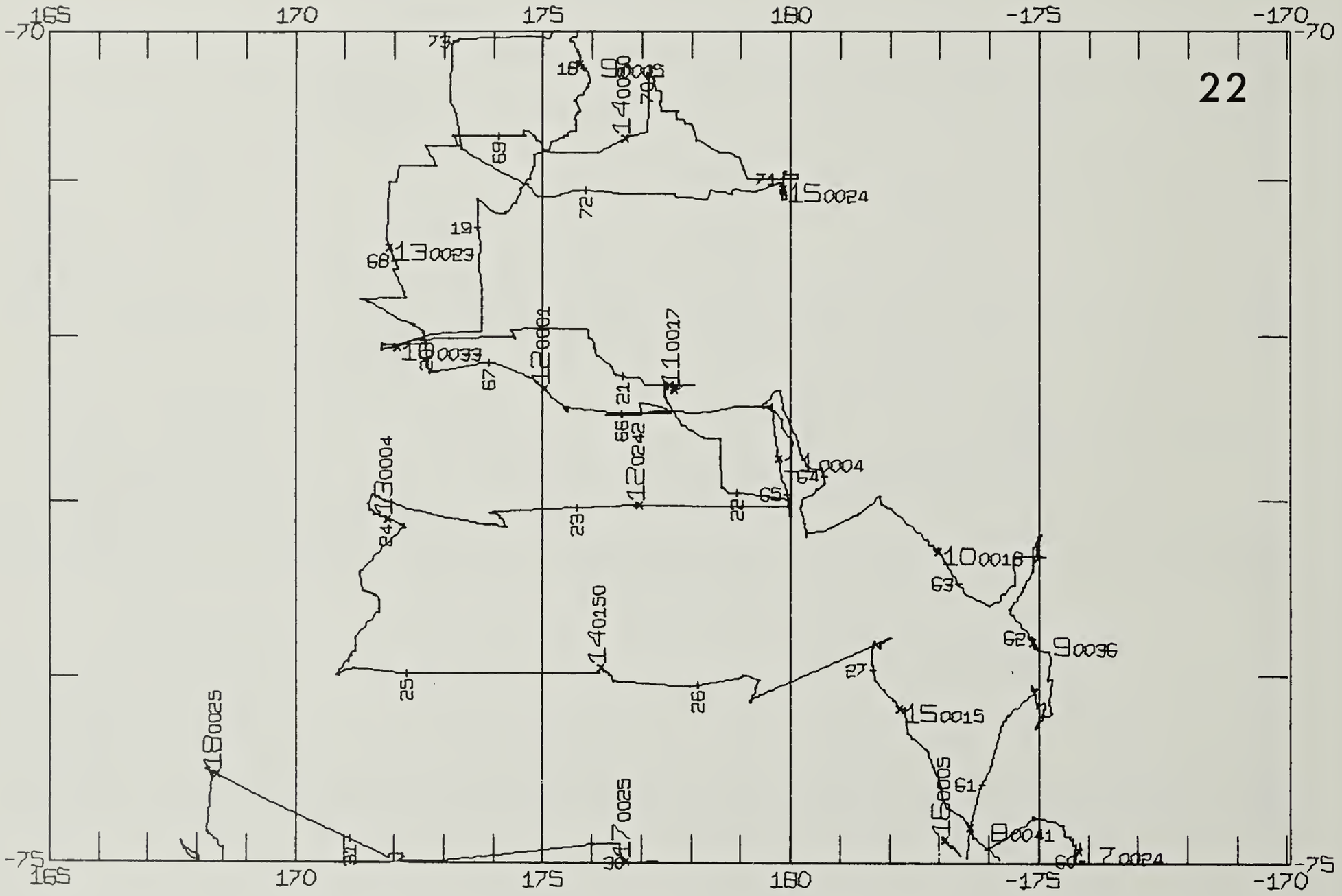
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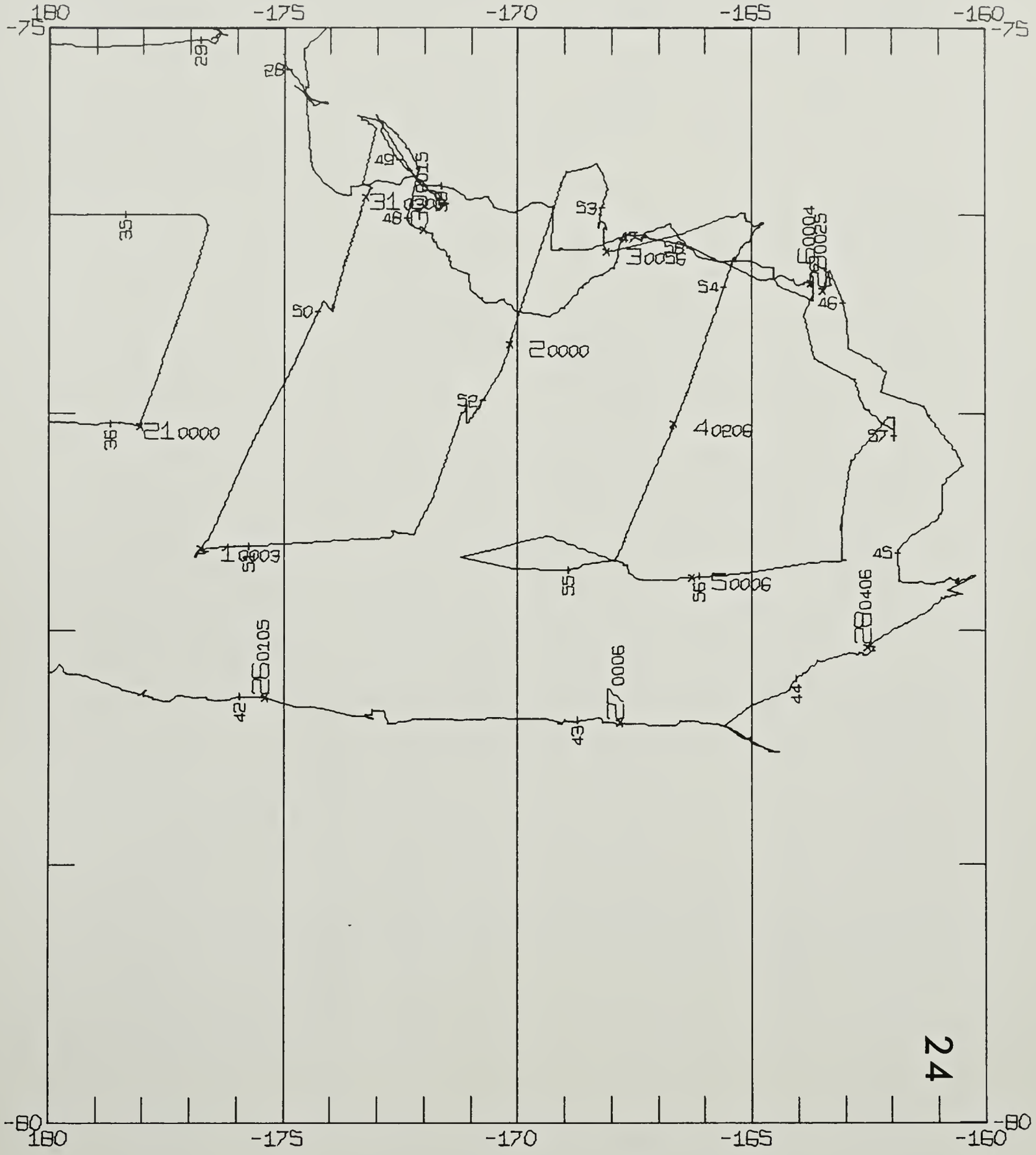
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ELTANIN CRUISE 28

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
10	3	1967	0.0	10 0	-38 19.5	144 36.0	0.0	10.4	137	61250.
10	3	1967	0.0	11 0	-38 27.1	144 45.0	10.4	10.4	130	61427.
10	3	1967	0.0	1624	-39 3.2	145 40.3	66.6	11.1	131	61682.
10	3	1967	0.0	2350	-39 57.2	147 1.5	149.3	13.1	129	61754.
11	3	1967	0.0	150	-40 13.7	147 28.1	175.5	12.1	129	61795.
11	3	1967	0.0	3 7	-40 23.5	147 44.0	191.1	12.1	133	61867.
11	3	1967	0.0	5 0	-40 39.1	148 6.1	214.0	12.3	96	61862.
11	3	1967	0.0	514	-40 39.4	148 9.7	216.8	12.7	96	61817.
11	3	1967	0.0	7 0	-40 41.6	148 39.3	239.4	12.2	99	61804.
11	3	1967	0.0	742	-40 42.9	148 50.4	247.9	9.0	97	61798.
11	3	1967	0.0	8 5	-40 43.3	148 54.9	251.3	9.7	96	61794.
11	3	1967	0.0	815	-40 43.5	148 57.1	253.0	10.3	178	61933.
11	3	1967	0.0	10 4	-41 2.3	148 57.8	271.7	10.0	177	62428.
11	3	1967	0.0	17 0	-42 11.5	149 3.1	341.1	9.8	202	62445.
11	3	1967	0.0	1714	-42 13.6	149 2.0	343.3	9.9	204	62472.
11	3	1967	0.0	1735	-42 16.8	149 0.1	346.8	9.8	207	62733.
11	3	1967	0.0	21 5	-42 47.3	148 38.8	381.2	8.2	207	62764.
11	3	1967	0.0	2135	-42 51.0	148 36.3	385.3	9.7	214	62802.
11	3	1967	0.0	22 7	-42 55.2	148 32.4	390.4	7.9	214	62808.
11	3	1967	0.0	2213	-42 55.9	148 31.7	391.2	9.8	214	62857.
11	3	1967	0.0	2254	-43 1.5	148 26.5	398.0	7.3	214	62886.
11	3	1967	0.0	2326	-43 4.7	148 23.6	401.9	9.5	214	62902.
11	3	1967	0.0	2340	-43 6.6	148 21.9	404.1	9.9	224	62966.
12	3	1967	0.0	037	-43 13.3	148 12.9	413.4	6.0	224	62980.
12	3	1967	0.0	057	-43 14.7	148 11.0	415.5	3.9	223	62984.
12	3	1967	0.0	1 5	-43 15.1	148 10.5	416.0	0.2	87	62982.
12	3	1967	0.0	424	-43 15.1	148 11.3	416.6	0.5	344	62978.
12	3	1967	0.0	545	-43 14.4	148 11.0	417.3	8.7	87	62968.
12	3	1967	0.0	6 8	-43 14.2	148 15.6	420.7	8.2	94	62961.
12	3	1967	0.0	630	-43 14.4	148 19.7	423.7	0.8	231	62974.
12	3	1967	0.0	856	-43 15.7	148 17.5	425.7	0.5	165	62976.
12	3	1967	0.0	925	-43 15.9	148 17.6	426.0	9.4	93	62968.
12	3	1967	0.0	946	-43 16.1	148 22.2	429.3	0.5	165	62974.
12	3	1967	0.0	1142	-43 17.1	148 22.5	430.3	9.3	66	62933.
12	3	1967	0.0	13 7	-43 16.3	148 40.5	443.4	0.5	165	62943.
12	3	1967	0.0	1622	-43 18.0	148 41.1	445.2	0.9	171	62952.
12	3	1967	0.0	18 0	-43 19.4	148 41.4	446.6	8.8	94	62949.
12	3	1967	0.0	1810	-43 19.5	148 43.4	448.1	8.7	91	62946.
12	3	1967	0.0	1817	-43 19.5	148 44.8	449.1	6.0	88	62937.
12	3	1967	0.0	1850	-43 19.4	148 49.3	452.4	9.1	91	62930.
12	3	1967	0.0	19 5	-43 19.4	148 52.4	454.6	9.2	84	62917.
12	3	1967	0.0	1930	-43 19.0	148 57.7	458.5	10.0	87	62901.
12	3	1967	0.0	20 0	-43 18.8	149 4.6	463.5	9.9	82	62889.
12	3	1967	0.0	2020	-43 18.3	149 9.0	466.8	9.5	64	62849.
12	3	1967	0.0	21 5	-43 15.2	149 17.8	473.9	5.5	62	62839.
12	3	1967	0.0	2125	-43 14.3	149 20.1	475.8	9.4	64	62833.
12	3	1967	0.0	2132	-43 13.8	149 21.4	476.9	0.5	355	62814.
13	3	1967	0.0	257	-43 11.1	149 21.1	479.6	7.9	91	62808.
13	3	1967	0.0	314	-43 11.1	149 24.1	481.9	9.9	92	62800.
13	3	1967	0.0	332	-43 11.2	149 28.3	484.9	10.6	96	62722.
13	3	1967	0.0	7 6	-43 15.2	150 19.6	522.5	5.9	93	62715.
13	3	1967	0.0	732	-43 15.4	150 23.1	525.1	0.4	313	62711.
13	3	1967	0.0	12 0	-43 14.3	150 21.5	526.7	7.9	88	62702.
13	3	1967	0.0	1221	-43 14.2	150 25.2	529.4	10.3	89	62599.
13	3	1967	0.0	1536	-43 13.4	151 11.1	562.8	10.4	89	62569.
13	3	1967	0.0	1630	-43 13.1	151 24.0	572.3	10.4	89	62543.
13	3	1967	0.0	1718	-43 12.9	151 35.4	580.6	10.3	88	62481.
13	3	1967	0.0	19 8	-43 12.3	152 1.3	599.4	10.6	91	62477.
13	3	1967	0.0	1916	-43 12.3	152 3.2	600.9	6.0	81	62473.
13	3	1967	0.0	1927	-43 12.1	152 3.7	601.9	6.2	132	62477.
13	3	1967	0.0	1944	-43 13.3	152 6.4	603.7	13.0	132	62484.
13	3	1967	0.0	1956	-43 15.1	152 9.1	606.3	0.1	152	62488.
14	3	1967	0.0	149	-43 15.8	152 9.7	607.2	6.0	91	62480.
14	3	1967	0.0	215	-43 15.9	152 13.3	609.8	9.1	91	62432.
14	3	1967	0.0	4 2	-43 16.1	152 35.4	626.0	5.5	91	62430.
14	3	1967	0.0	412	-43 16.1	152 36.7	626.9	9.1	91	62423.
14	3	1967	0.0	428	-43 16.2	152 40.0	629.3	9.7	89	62194.
14	3	1967	0.0	1145	-43 15.4	154 17.2	700.0	6.6	89	62184.

ELTANIN CRUISE 28

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
14	3	1967	0.0	1213	-43 15.3	154 21.3	703.1	0.7	81	62172.
14	3	1967	0.0	1626	-43 14.9	154 25.4	706.1	0.0	326	62171.
14	3	1967	0.0	1830	-43 14.9	154 25.4	706.1	8.8	90	62159.
14	3	1967	0.0	1856	-43 14.9	154 30.5	709.9	10.0	90	62131.
14	3	1967	0.0	1948	-43 14.8	154 42.4	718.5	9.3	90	62033.
14	3	1967	0.0	23 0	-43 14.8	155 23.5	748.4	9.5	90	61938.
15	3	1967	0.0	2 0	-43 14.7	156 2.6	776.9	9.7	90	61864.
15	3	1967	0.0	415	-43 14.7	156 32.7	798.9	7.6	93	61854.
15	3	1967	0.0	440	-43 14.8	156 37.0	802.0	0.0	326	61854.
15	3	1967	0.0	524	-43 14.8	156 37.0	802.0	0.3	67	61846.
15	3	1967	0.0	1039	-43 14.3	156 38.7	803.4	3.7	88	61845.
15	3	1967	0.0	1044	-43 14.3	156 39.1	803.7	7.8	89	61838.
15	3	1967	0.0	1059	-43 14.2	156 41.8	805.6	10.2	89	61730.
15	3	1967	0.0	14 0	-43 13.9	157 24.2	836.5	10.2	89	61671.
15	3	1967	0.0	1538	-43 13.8	157 47.1	853.2	10.1	89	61608.
15	3	1967	0.0	1722	-43 13.4	158 11.0	870.7	9.8	92	61587.
15	3	1967	0.0	18 0	-43 13.6	158 19.6	876.9	9.9	92	61534.
15	3	1967	0.0	1937	-43 14.0	158 41.5	892.8	6.6	92	61525.
15	3	1967	0.0	20 2	-43 14.1	158 45.3	895.6	10.9	91	61517.
15	3	1967	0.0	2015	-43 14.2	158 48.6	898.0	0.3	221	61532.
16	3	1967	0.0	145	-43 15.6	158 46.8	899.9	6.6	92	61525.
16	3	1967	0.0	2 6	-43 15.7	158 49.9	902.2	9.5	92	61502.
16	3	1967	0.0	248	-43 15.9	158 59.1	908.9	9.9	88	61420.
16	3	1967	0.0	5 0	-43 15.3	159 28.9	930.6	9.7	88	61373.
16	3	1967	0.0	618	-43 15.0	159 46.2	943.2	10.1	88	61267.
16	3	1967	0.0	9 0	-43 14.2	160 23.8	970.6	10.1	88	61168.
16	3	1967	0.0	1131	-43 13.5	160 58.6	996.0	7.2	88	61156.
16	3	1967	0.0	1155	-43 13.4	161 2.5	998.8	0.7	64	61144.
16	3	1967	0.0	1446	-43 12.5	161 4.9	1000.7	1.3	83	61134.
16	3	1967	0.0	1630	-43 12.3	161 7.9	1002.9	0.3	56	61132.
16	3	1967	0.0	1719	-43 12.1	161 8.1	1003.1	6.6	91	61125.
16	3	1967	0.0	1736	-43 12.2	161 10.7	1005.0	9.8	91	61100.
16	3	1967	0.0	1820	-43 12.3	161 20.6	1012.2	9.6	90	60852.
17	3	1967	0.0	1 3	-43 12.0	162 49.4	1077.0	7.3	89	60817.
17	3	1967	0.0	217	-43 11.9	163 1.8	1086.0	10.0	90	60785.
17	3	1967	0.0	3 7	-43 11.9	163 13.1	1094.3	10.1	44	60742.
17	3	1967	0.0	338	-43 8.1	163 18.1	1099.5	9.9	44	60591.
17	3	1967	0.0	530	-42 54.7	163 35.6	1118.1	9.8	45	60552.
17	3	1967	0.0	6 0	-42 51.2	163 40.4	1123.0	9.8	45	60265.
17	3	1967	0.0	937	-42 26.5	164 14.5	1158.2	9.6	134	60281.
17	3	1967	0.0	1015	-42 30.8	164 20.5	1164.3	8.7	225	60544.
17	3	1967	0.0	1356	-42 53.7	163 49.7	1196.5	8.8	224	60549.
17	3	1967	0.0	14 0	-42 54.2	163 49.1	1197.2	9.0	224	60671.
17	3	1967	0.0	1540	-43 5.0	163 34.9	1212.2	9.4	223	60753.
17	3	1967	0.0	1644	-43 12.3	163 25.6	1222.2	10.1	137	60767.
17	3	1967	0.0	1714	-43 16.0	163 30.3	1227.2	9.4	47	60749.
17	3	1967	0.0	1728	-43 14.5	163 32.5	1229.4	9.8	45	60627.
17	3	1967	0.0	19 0	-43 3.9	163 47.2	1244.5	10.4	45	60459.
17	3	1967	0.0	21 0	-42 49.2	164 7.3	1265.3	9.5	45	60303.
17	3	1967	0.0	23 0	-42 35.7	164 25.6	1284.3	9.4	45	60148.
18	3	1967	0.0	1 0	-42 22.3	164 43.8	1303.2	9.7	45	59970.
18	3	1967	0.0	314	-42 7.1	165 4.3	1324.8	9.2	135	59973.
18	3	1967	0.0	321	-42 7.9	165 5.4	1325.8	7.7	135	59977.
18	3	1967	0.0	332	-42 8.9	165 6.7	1327.3	9.9	135	59993.
18	3	1967	0.0	4 8	-42 13.1	165 12.4	1333.2	9.3	225	60038.
18	3	1967	0.0	444	-42 17.0	165 7.2	1338.7	9.1	222	60136.
18	3	1967	0.0	6 0	-42 25.7	164 56.7	1350.4	9.3	222	60291.
18	3	1967	0.0	8 0	-42 39.5	164 39.8	1369.0	9.2	222	60444.
18	3	1967	0.0	10 0	-42 53.3	164 23.0	1387.5	9.2	222	60597.
18	3	1967	0.0	12 0	-43 7.0	164 6.3	1405.9	9.1	222	60811.
18	3	1967	0.0	1452	-43 26.4	163 42.4	1431.9	8.4	223	60840.
18	3	1967	0.0	1517	-43 29.0	163 39.1	1435.5	9.9	130	60849.
18	3	1967	0.0	1550	-43 32.5	163 44.8	1440.9	9.9	47	60784.
18	3	1967	0.0	1640	-43 26.8	163 53.1	1449.1	9.2	45	60684.
18	3	1967	0.0	18 0	-43 18.1	164 5.1	1461.4	9.2	45	60534.
18	3	1967	0.0	20 0	-43 5.1	164 23.1	1479.9	9.5	45	60380.
18	3	1967	0.0	22 0	-42 51.7	164 41.4	1498.9	9.6	45	60222.
19	3	1967	0.0	0 0	-42 38.2	164 59.9	1518.1	9.7	45	60066.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
19	3	1967	0.0	158	-42 24.7	165 18.3	1537.2	9.5	45	60012.
19	3	1967	0.0	238	-42 20.2	165 24.4	1543.5	7.1	135	60019.
19	3	1967	0.0	3 0	-42 22.0	165 26.9	1546.2	9.0	135	60029.
19	3	1967	0.0	326	-42 24.8	165 30.6	1550.0	8.6	225	60212.
19	3	1967	0.0	6 0	-42 40.5	165 9.3	1572.2	8.2	225	60347.
19	3	1967	0.0	8 0	-42 52.2	164 53.5	1588.7	7.7	225	60474.
19	3	1967	0.0	10 0	-43 3.1	164 38.6	1604.2	7.5	225	60563.
19	3	1967	0.0	1128	-43 10.9	164 28.0	1615.1	0.0	103	60563.
19	3	1967	0.0	1156	-43 10.9	164 28.0	1615.1	7.0	225	60574.
19	3	1967	0.0	12 7	-43 11.8	164 26.8	1616.4	4.4	225	60581.
19	3	1967	0.0	1219	-43 12.4	164 25.9	1617.3	7.0	225	60604.
19	3	1967	0.0	1243	-43 14.4	164 23.2	1620.1	3.4	225	60612.
19	3	1967	0.0	13 0	-43 15.1	164 22.3	1621.1	7.4	225	60675.
19	3	1967	0.0	14 4	-43 20.6	164 14.6	1628.9	7.0	227	60774.
19	3	1967	0.0	1550	-43 29.1	164 2.3	1641.2	6.9	230	60804.
19	3	1967	0.0	1623	-43 31.5	163 58.3	1645.0	8.0	131	60814.
19	3	1967	0.0	17 0	-43 34.8	164 3.5	1650.0	10.0	42	60765.
19	3	1967	0.0	1736	-43 30.4	164 8.9	1655.9	9.2	42	60583.
19	3	1967	0.0	20 0	-43 13.9	164 29.2	1678.0	9.5	42	60425.
19	3	1967	0.0	22 0	-42 59.8	164 46.7	1697.1	9.1	42	60273.
20	3	1967	0.0	0 0	-42 46.2	165 3.3	1715.3	10.0	42	60028.
20	3	1967	0.0	256	-42 24.5	165 30.1	1744.6	10.4	44	59986.
20	3	1967	0.0	325	-42 20.9	165 34.8	1749.6	5.9	133	59990.
20	3	1967	0.0	340	-42 21.9	165 36.2	1751.1	7.9	134	60002.
20	3	1967	0.0	418	-42 25.4	165 41.1	1756.1	6.7	227	60024.
20	3	1967	0.0	442	-42 27.2	165 38.4	1758.8	6.9	225	60155.
20	3	1967	0.0	7 0	-42 38.4	165 23.1	1774.7	7.4	225	60338.
20	3	1967	0.0	10 0	-42 54.0	165 1.5	1796.9	8.0	225	60599.
20	3	1967	0.0	14 0	-43 16.5	164 30.3	1828.9	8.6	225	60666.
20	3	1967	0.0	1458	-43 22.3	164 22.2	1837.2	8.3	229	60706.
20	3	1967	0.0	1535	-43 25.6	164 16.9	1842.3	8.9	86	60670.
20	3	1967	0.0	1630	-43 25.0	164 28.1	1850.5	9.9	298	60670.
20	3	1967	0.0	1644	-43 23.9	164 25.4	1852.7	9.6	294	60693.
20	3	1967	0.0	21 0	-43 7.5	163 33.6	1893.8	9.6	294	60713.
21	3	1967	0.0	1 0	-42 52.1	162 45.3	1932.4	9.6	294	60718.
21	3	1967	0.0	2 4	-42 48.0	162 32.6	1942.5	9.6	296	60719.
21	3	1967	0.0	3 0	-42 44.0	162 21.7	1951.5	9.6	103	60668.
21	3	1967	0.0	538	-42 49.8	162 55.4	1976.9	9.3	102	60599.
21	3	1967	0.0	9 0	-42 56.4	163 37.4	2008.3	9.0	102	60538.
21	3	1967	0.0	12 0	-43 1.9	164 13.4	2035.3	9.0	102	60494.
21	3	1967	0.0	14 6	-43 5.8	164 38.6	2054.1	8.9	103	60476.
21	3	1967	0.0	15 0	-43 7.6	164 49.4	2062.2	9.0	103	60459.
21	3	1967	0.0	1552	-43 9.2	164 59.7	2069.9	9.5	107	60455.
21	3	1967	0.0	16 8	-43 10.0	165 3.1	2072.5	9.5	293	60456.
21	3	1967	0.0	1621	-43 9.2	165 0.6	2074.5	6.6	292	60459.
21	3	1967	0.0	1651	-43 8.0	164 56.4	2077.8	10.0	293	60465.
21	3	1967	0.0	1740	-43 4.7	164 46.1	2086.0	9.7	293	60474.
21	3	1967	0.0	19 0	-42 59.7	164 29.7	2099.0	9.5	293	60499.
21	3	1967	0.0	23 0	-42 44.9	163 41.8	2137.1	9.8	293	60512.
22	3	1967	0.0	110	-42 36.6	163 15.2	2158.3	10.0	294	60518.
22	3	1967	0.0	220	-42 32.0	163 0.8	2169.9	9.5	106	60507.
22	3	1967	0.0	3 2	-42 33.8	163 9.4	2176.6	9.5	105	60478.
22	3	1967	0.0	450	-42 38.3	163 31.9	2193.7	9.4	105	60458.
22	3	1967	0.0	6 0	-42 41.2	163 46.4	2204.7	9.4	105	60387.
22	3	1967	0.0	10 0	-42 50.7	164 36.1	2242.5	9.6	105	60327.
22	3	1967	0.0	1316	-42 58.7	165 17.6	2273.8	9.4	105	60316.
22	3	1967	0.0	1353	-43 0.2	165 25.2	2279.6	7.0	289	60320.
22	3	1967	0.0	1419	-42 59.3	165 21.3	2282.6	9.1	289	60329.
22	3	1967	0.0	15 4	-42 57.0	165 12.5	2289.5	8.5	286	60349.
22	3	1967	0.0	1630	-42 53.6	164 56.5	2301.6	8.1	286	60354.
22	3	1967	0.0	1650	-42 52.8	164 53.0	2304.3	8.2	287	60386.
22	3	1967	0.0	1919	-42 46.9	164 26.5	2324.6	7.5	287	60388.
22	3	1967	0.0	1930	-42 46.5	164 24.7	2326.0	6.4	286	60395.
22	3	1967	0.0	2010	-42 45.3	164 19.2	2330.2	8.8	287	60419.
22	3	1967	0.0	22 0	-42 40.6	163 58.1	2346.4	8.5	287	60457.
23	3	1967	0.0	1 0	-42 33.1	163 25.0	2371.9	8.6	287	60472.
23	3	1967	0.0	2 8	-42 30.2	163 12.4	2381.7	8.4	287	60480.
23	3	1967	0.0	249	-42 28.5	163 4.9	2387.4	8.9	103	60460.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
23	3	1967	0.0	356	-42 30.8	163 18.0	2397.3	8.4	102	60441.
23	3	1967	0.0	5 0	-42 32.7	163 29.8	2406.3	8.3	102	60387.
23	3	1967	0.0	8 0	-42 38.0	164 2.8	2431.1	8.5	102	60268.
23	3	1967	0.0	1412	-42 49.3	165 13.2	2484.0	8.5	101	60255.
23	3	1967	0.0	1447	-42 50.2	165 19.9	2489.0	8.2	324	60220.
23	3	1967	0.0	1554	-42 42.8	165 12.5	2498.2	7.7	322	60219.
23	3	1967	0.0	1557	-42 42.5	165 12.2	2498.6	9.2	323	60212.
23	3	1967	0.0	16 9	-42 41.0	165 10.6	2500.5	8.1	322	60166.
23	3	1967	0.0	1744	-42 30.9	164 60.0	2513.3	8.1	329	60154.
23	3	1967	0.0	18 4	-42 28.5	164 58.0	2516.0	6.9	329	60143.
23	3	1967	0.0	1824	-42 26.5	164 56.4	2518.3	5.8	330	60071.
23	3	1967	0.0	21 4	-42 13.3	164 46.0	2533.7	9.4	200	60174.
23	3	1967	0.0	2220	-42 24.4	164 40.4	2545.6	9.6	200	60244.
23	3	1967	0.0	2311	-42 32.1	164 36.5	2553.8	8.0	200	60385.
24	3	1967	0.0	116	-42 47.7	164 29.0	2570.4	8.2	202	60489.
24	3	1967	0.0	245	-42 59.0	164 22.7	2582.5	9.2	203	60516.
24	3	1967	0.0	3 6	-43 1.9	164 21.0	2585.7	8.5	202	60521.
24	3	1967	0.0	310	-43 2.5	164 20.7	2586.3	7.8	201	60632.
24	3	1967	0.0	452	-43 14.8	164 14.2	2599.5	8.8	205	60665.
24	3	1967	0.0	518	-43 18.3	164 12.0	2603.3	6.1	297	60665.
24	3	1967	0.0	531	-43 17.7	164 10.4	2604.7	5.7	272	60801.
24	3	1967	0.0	1157	-43 16.7	163 20.1	2641.3	3.0	268	60804.
24	3	1967	0.0	1210	-43 16.7	163 19.2	2641.9	0.4	201	60812.
24	3	1967	0.0	15 6	-43 17.7	163 18.7	2643.0	0.8	230	60823.
24	3	1967	0.0	1650	-43 18.6	163 17.2	2644.4	0.5	184	60856.
25	3	1967	0.0	214	-43 22.9	163 16.8	2648.6	0.2	267	60856.
25	3	1967	0.0	232	-43 22.9	163 16.7	2648.7	5.8	85	60848.
25	3	1967	0.0	250	-43 22.7	163 19.1	2650.4	9.2	85	60800.
25	3	1967	0.0	4 0	-43 21.8	163 33.8	2661.2	9.6	83	60612.
25	3	1967	0.0	8 7	-43 17.2	164 27.4	2700.5	9.5	88	60407.
25	3	1967	0.0	1311	-43 15.6	165 33.9	2748.9	6.4	87	60396.
25	3	1967	0.0	1336	-43 15.5	165 37.5	2751.6	0.3	23	60394.
25	3	1967	0.0	1412	-43 15.3	165 37.6	2751.8	0.3	169	60397.
25	3	1967	0.0	16 0	-43 15.8	165 37.8	2752.2	0.1	14	60393.
25	3	1967	0.0	20 7	-43 15.3	165 37.9	2752.7	6.2	85	60387.
25	3	1967	0.0	2020	-43 15.2	165 39.8	2754.1	9.4	85	60230.
25	3	1967	0.0	2353	-43 12.5	166 25.6	2787.6	10.0	103	60228.
26	3	1967	0.0	0 0	-43 12.8	166 27.2	2788.8	9.9	103	60217.
26	3	1967	0.0	030	-43 13.9	166 33.8	2793.7	8.8	103	60207.
26	3	1967	0.0	1 0	-43 14.9	166 39.7	2798.1	11.5	103	60206.
26	3	1967	0.0	1 3	-43 15.0	166 40.4	2798.7	6.4	103	60202.
26	3	1967	0.0	119	-43 15.4	166 42.7	2800.4	0.1	26	60202.
26	3	1967	0.0	122	-43 15.4	166 42.7	2800.4	0.4	170	60211.
26	3	1967	0.0	458	-43 16.8	166 43.0	2801.8	0.6	45	60200.
26	3	1967	0.0	7 8	-43 15.8	166 44.4	2803.1	7.6	84	60190.
26	3	1967	0.0	724	-43 15.6	166 47.1	2805.2	9.9	85	60068.
26	3	1967	0.0	957	-43 13.2	167 21.5	2830.3	7.6	84	60058.
26	3	1967	0.0	1013	-43 13.0	167 24.3	2832.4	6.7	274	60063.
26	3	1967	0.0	1025	-43 12.9	167 22.4	2833.7	0.6	45	60049.
26	3	1967	0.0	13 3	-43 11.7	167 24.1	2835.4	10.3	88	60032.
26	3	1967	0.0	1326	-43 11.5	167 29.5	2839.3	9.6	89	60022.
26	3	1967	0.0	1341	-43 11.5	167 32.8	2841.7	9.7	91	59905.
26	3	1967	0.0	1642	-43 12.2	168 12.7	2870.9	0.3	296	59905.
26	3	1967	0.0	1658	-43 12.2	168 12.6	2870.9	0.4	72	59900.
26	3	1967	0.0	19 0	-43 11.9	168 13.8	2871.8	6.2	91	59897.
26	3	1967	0.0	19 7	-43 11.9	168 14.7	2872.5	10.3	92	59665.
27	3	1967	0.0	050	-43 14.1	169 35.5	2931.4	6.7	91	59662.
27	3	1967	0.0	055	-43 14.1	169 36.3	2932.0	0.4	72	59658.
27	3	1967	0.0	218	-43 13.9	169 37.1	2932.6	0.2	232	59659.
27	3	1967	0.0	233	-43 14.0	169 37.0	2932.6	5.6	33	59646.
27	3	1967	0.0	248	-43 12.8	169 38.1	2934.0	9.1	34	59610.
27	3	1967	0.0	315	-43 9.4	169 41.2	2938.2	9.4	34	59547.
27	3	1967	0.0	4 0	-43 3.5	169 46.6	2945.2	9.2	34	59542.
27	3	1967	0.0	4 4	-43 3.0	169 47.0	2945.8	9.4	34	58679.
27	3	1967	0.0	1418	-41 43.0	171 0.0	3042.3	9.5	35	58525.
27	3	1967	0.0	16 6	-41 29.0	171 13.0	3059.3	8.9	34	58290.
27	3	1967	0.0	19 0	-41 7.5	171 32.1	3085.1	9.4	34	57860.
28	3	1967	0.0	0 0	-40 28.5	172 6.4	3132.1	8.4	34	57783.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
28	3	1967	0.0	1 0	-40 21.5	172 12.5	3140.5	7.4	34	57753.
28	3	1967	0.0	126	-40 18.8	172 14.8	3143.6	7.4	25	57714.
28	3	1967	0.0	2 0	-40 15.0	172 17.1	3147.8	5.2	20	57714.
28	3	1967	0.0	2 1	-40 14.9	172 17.2	3147.9	8.1	104	57693.
28	3	1967	0.0	312	-40 17.3	172 29.3	3157.4	9.2	105	57492.
28	3	1967	0.0	1310	-40 40.6	174 25.3	3248.7	8.1	169	57540.
28	3	1967	0.0	14 0	-40 47.2	174 27.1	3255.5	9.0	168	57572.
28	3	1967	0.0	1430	-40 51.6	174 28.3	3260.0	10.0	168	57627.
28	3	1967	0.0	1516	-40 59.2	174 30.4	3267.7	10.1	166	57670.
28	3	1967	0.0	1553	-41 5.2	174 32.4	3273.9	10.1	168	57750.
28	3	1967	0.0	17 0	-41 16.3	174 35.5	3285.3	9.2	168	57846.
28	3	1967	0.0	1830	-41 29.7	174 39.3	3299.0	8.3	40	57835.
28	3	1967	0.0	1839	-41 28.8	174 40.4	3300.3	8.9	34	57823.
28	3	1967	0.0	1848	-41 27.7	174 41.4	3301.6	8.7	31	57725.
28	3	1967	0.0	20 0	-41 18.7	174 48.6	3312.1	0.3	159	57725.
28	3	1967	0.0	20 1	-41 18.7	174 48.6	3312.1	0.2	176	57744.
29	3	1967	0.0	818	-41 21.1	174 48.8	3314.5	10.7	200	58028.
29	3	1967	0.0	1112	-41 50.3	174 35.0	3345.4	7.4	199	58048.
29	3	1967	0.0	1130	-41 52.4	174 33.9	3347.7	9.7	200	58298.
29	3	1967	0.0	1420	-42 18.2	174 21.6	3375.1	9.4	201	58782.
29	3	1967	0.0	20 0	-43 8.1	173 56.1	3428.4	9.5	202	58840.
29	3	1967	0.0	2041	-43 14.1	173 52.9	3434.8	5.9	202	58859.
29	3	1967	0.0	21 2	-43 16.0	173 51.8	3436.9	0.1	335	58856.
30	3	1967	0.0	034	-43 15.6	173 51.5	3437.3	4.9	91	58850.
30	3	1967	0.0	051	-43 15.6	173 53.4	3438.7	9.5	91	58823.
30	3	1967	0.0	130	-43 15.7	174 1.9	3444.9	9.2	94	58805.
30	3	1967	0.0	2 0	-43 16.0	174 8.2	3449.5	9.1	92	58753.
30	3	1967	0.0	320	-43 16.4	174 24.8	3461.6	9.6	87	58719.
30	3	1967	0.0	4 3	-43 16.0	174 34.3	3468.5	4.6	83	58710.
30	3	1967	0.0	423	-43 15.8	174 36.4	3470.1	0.6	9	58706.
30	3	1967	0.0	515	-43 15.3	174 36.5	3470.6	4.1	82	58700.
30	3	1967	0.0	530	-43 15.1	174 37.9	3471.6	9.6	87	58539.
30	3	1967	0.0	850	-43 13.2	175 21.7	3503.6	4.8	83	58528.
30	3	1967	0.0	917	-43 12.9	175 24.7	3505.7	9.6	87	58466.
30	3	1967	0.0	1034	-43 12.2	175 41.4	3518.0	4.2	82	58459.
30	3	1967	0.0	1052	-43 12.0	175 43.1	3519.2	0.6	9	58452.
30	3	1967	0.0	12 8	-43 11.3	175 43.3	3520.0	6.2	85	58442.
30	3	1967	0.0	1226	-43 11.1	175 45.8	3521.8	9.6	87	58390.
30	3	1967	0.0	1330	-43 10.5	175 59.9	3532.1	9.7	90	58310.
30	3	1967	0.0	1518	-43 10.5	176 23.8	3549.6	9.7	91	58278.
30	3	1967	0.0	16 3	-43 10.6	176 33.7	3556.8	9.7	97	58127.
30	3	1967	0.0	2020	-43 15.5	177 30.1	3598.2	4.1	98	58120.
30	3	1967	0.0	2047	-43 15.7	177 32.7	3600.0	0.2	133	58121.
30	3	1967	0.0	2237	-43 16.0	177 33.0	3600.4	4.0	92	58114.
30	3	1967	0.0	23 0	-43 16.0	177 35.2	3602.0	10.2	91	58039.
31	3	1967	0.0	038	-43 16.2	177 57.9	3618.5	10.4	93	57876.
31	3	1967	0.0	418	-43 18.0	178 50.0	3656.5	10.9	89	57862.
31	3	1967	0.0	434	-43 17.9	178 54.0	3659.4	10.9	80	57783.
31	3	1967	0.0	546	-43 15.6	179 11.6	3672.4	4.9	79	57774.
31	3	1967	0.0	6 4	-43 15.3	179 13.6	3673.9	0.9	77	57769.
31	3	1967	0.0	647	-43 15.2	179 14.4	3674.5	5.1	88	57763.
31	3	1967	0.0	7 1	-43 15.1	179 16.1	3675.7	10.4	89	57478.
31	3	1967	0.0	1240	-43 14.0	-179 23.6	3734.2	9.5	87	57408.
31	3	1967	0.0	14 8	-43 13.4	-179 4.6	3748.1	7.0	87	57397.
31	3	1967	0.0	1426	-43 13.2	-179 1.7	3750.2	7.2	93	57393.
31	3	1967	0.0	1433	-43 13.3	-179 0.6	3751.0	0.4	150	57397.
31	3	1967	0.0	1620	-43 13.9	-179 0.1	3751.7	0.1	182	57397.
31	3	1967	0.0	1650	-43 13.9	-179 0.1	3751.8	5.0	91	57386.
31	3	1967	0.0	1714	-43 14.0	-178 57.3	3753.8	10.0	91	57114.
31	3	1967	0.0	23 7	-43 14.6	-177 36.5	3812.7	9.9	360	57082.
31	3	1967	0.0	2330	-43 10.7	-177 36.6	3816.5	10.0	91	57068.
31	3	1967	0.0	2348	-43 10.7	-177 32.5	3819.5	10.6	91	57053.
1	4	1967	0.0	0 7	-43 10.8	-177 27.9	3822.8	10.5	115	57048.
1	4	1967	0.0	040	-43 13.2	-177 20.7	3828.6	6.9	5	57025.
1	4	1967	0.0	1 3	-43 10.6	-177 20.4	3831.3	0.6	108	57023.
1	4	1967	0.0	244	-43 10.9	-177 19.1	3832.2	5.7	92	57016.
1	4	1967	0.0	3 0	-43 10.9	-177 17.0	3833.8	10.5	91	56998.
1	4	1967	0.0	322	-43 11.0	-177 11.8	3837.6	9.7	91	56657.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
1	4	1967	0.0	1059	-43 12.2	-175 30.5	3911.4	4.2	92	56648.
1	4	1967	0.0	1127	-43 12.3	-175 27.8	3913.4	0.3	242	56649.
1	4	1967	0.0	1150	-43 12.3	-175 28.0	3913.5	0.4	131	56650.
1	4	1967	0.0	1248	-43 12.6	-175 27.6	3913.9	7.5	92	56641.
1	4	1967	0.0	13 4	-43 12.7	-175 24.9	3915.9	9.8	92	56537.
1	4	1967	0.0	1524	-43 13.3	-174 53.5	3938.8	9.6	93	56385.
1	4	1967	0.0	19 0	-43 14.8	-174 5.9	3973.5	10.1	92	56351.
1	4	1967	0.0	1947	-43 15.1	-173 55.0	3981.4	5.1	95	56343.
1	4	1967	0.0	20 9	-43 15.3	-173 52.5	3983.2	0.4	163	56351.
1	4	1967	0.0	2250	-43 16.4	-173 52.0	3984.4	7.3	93	56348.
1	4	1967	0.0	2256	-43 16.4	-173 51.0	3985.1	7.5	91	56340.
1	4	1967	0.0	23 9	-43 16.5	-173 48.8	3986.8	10.2	90	56292.
2	4	1967	0.0	010	-43 16.5	-173 34.5	3997.2	0.3	106	56291.
2	4	1967	0.0	048	-43 16.6	-173 34.3	3997.3	1.5	122	56293.
2	4	1967	0.0	232	-43 17.9	-173 31.3	3999.9	0.3	248	56293.
2	4	1967	0.0	235	-43 17.9	-173 31.3	3999.9	4.7	91	56288.
2	4	1967	0.0	248	-43 18.0	-173 29.9	4000.9	9.7	91	56138.
2	4	1967	0.0	6 8	-43 18.4	-172 45.5	4033.3	6.7	91	56126.
2	4	1967	0.0	632	-43 18.4	-172 41.8	4036.0	0.3	249	56131.
2	4	1967	0.0	843	-43 18.7	-172 42.7	4036.7	4.8	86	56125.
2	4	1967	0.0	857	-43 18.6	-172 41.2	4037.8	9.7	86	55925.
2	4	1967	0.0	1248	-43 15.7	-171 50.2	4075.0	9.5	88	55897.
2	4	1967	0.0	1322	-43 15.5	-171 42.8	4080.4	5.4	90	55893.
2	4	1967	0.0	1333	-43 15.5	-171 41.4	4081.4	0.7	224	55899.
2	4	1967	0.0	1432	-43 15.9	-171 42.1	4082.1	0.5	105	55896.
2	4	1967	0.0	17 3	-43 16.2	-171 40.6	4083.2	5.9	91	55888.
2	4	1967	0.0	1722	-43 16.3	-171 38.0	4085.0	9.0	91	55861.
2	4	1967	0.0	18 0	-43 16.4	-171 30.1	4090.8	8.8	91	55852.
2	4	1967	0.0	1814	-43 16.4	-171 27.4	4092.8	8.9	84	55764.
2	4	1967	0.0	20 0	-43 14.8	-171 5.7	4108.7	8.9	84	55714.
2	4	1967	0.0	21 0	-43 13.8	-170 53.5	4117.6	9.0	84	55680.
2	4	1967	0.0	2141	-43 13.2	-170 45.2	4123.7	6.4	85	55668.
2	4	1967	0.0	22 2	-43 13.0	-170 42.2	4125.9	0.5	105	55666.
2	4	1967	0.0	2356	-43 13.2	-170 41.0	4126.8	0.5	228	55674.
3	4	1967	0.0	138	-43 13.8	-170 41.9	4127.6	0.2	241	55678.
3	4	1967	0.0	332	-43 14.0	-170 42.5	4128.1	3.8	92	55673.
3	4	1967	0.0	350	-43 14.1	-170 40.9	4129.2	9.8	91	55507.
3	4	1967	0.0	731	-43 14.5	-169 51.5	4165.2	4.3	92	55499.
3	4	1967	0.0	758	-43 14.6	-169 48.9	4167.1	0.2	241	55507.
3	4	1967	0.0	1154	-43 15.1	-169 50.1	4168.1	0.2	123	55507.
3	4	1967	0.0	1340	-43 15.2	-169 49.7	4168.5	0.5	165	55514.
3	4	1967	0.0	1530	-43 16.1	-169 49.4	4169.3	0.7	304	55512.
3	4	1967	0.0	1826	-43 14.9	-169 51.9	4171.5	5.4	86	55505.
3	4	1967	0.0	1840	-43 14.8	-169 50.1	4172.8	9.5	87	55463.
3	4	1967	0.0	1933	-43 14.4	-169 38.7	4181.1	9.4	90	55347.
3	4	1967	0.0	2210	-43 14.2	-169 5.1	4205.6	4.0	86	55339.
3	4	1967	0.0	2232	-43 14.2	-169 3.1	4207.1	0.7	304	55339.
3	4	1967	0.0	23 2	-43 13.9	-169 3.5	4207.5	0.5	109	55332.
4	4	1967	0.0	644	-43 15.2	-168 58.5	4211.3	5.4	94	55324.
4	4	1967	0.0	7 7	-43 15.3	-168 55.6	4213.4	10.4	93	55321.
4	4	1967	0.0	711	-43 15.3	-168 54.6	4214.2	10.5	88	55250.
4	4	1967	0.0	833	-43 14.8	-168 34.9	4228.5	5.0	96	55243.
4	4	1967	0.0	854	-43 15.0	-168 32.5	4230.3	0.5	109	55241.
4	4	1967	0.0	11 6	-43 15.4	-168 31.1	4231.4	0.1	99	55239.
4	4	1967	0.0	16 1	-43 15.5	-168 30.2	4232.0	5.1	90	55229.
4	4	1967	0.0	1628	-43 15.5	-168 27.1	4234.2	10.1	90	55119.
4	4	1967	0.0	1849	-43 15.6	-167 54.4	4258.0	5.2	90	55110.
4	4	1967	0.0	1910	-43 15.6	-167 51.9	4259.9	0.1	99	55108.
4	4	1967	0.0	2356	-43 15.7	-167 51.1	4260.5	0.9	88	55101.
5	4	1967	0.0	142	-43 15.6	-167 48.9	4262.1	0.3	329	55093.
5	4	1967	0.0	6 0	-43 14.4	-167 49.9	4263.5	4.7	86	55086.
5	4	1967	0.0	616	-43 14.3	-167 48.2	4264.8	9.4	88	55082.
5	4	1967	0.0	622	-43 14.3	-167 47.0	4265.7	5.0	87	55076.
5	4	1967	0.0	636	-43 14.2	-167 45.4	4266.8	9.8	88	54881.
5	4	1967	0.0	1040	-43 13.0	-166 50.5	4306.9	5.0	87	54872.
5	4	1967	0.0	11 1	-43 12.9	-166 48.1	4308.6	0.3	329	54870
5	4	1967	0.0	1156	-43 12.6	-166 48.3	4308.9	0.4	89	[illegible]
5	4	1967	0.0	1344	-43 12.6	-166 47.2	4309.7	0.1	317	[illegible]

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
5	4	1967	0.0	1940	-43 12.3	-166 47.6	4310.1	4.7	89	54859.
5	4	1967	0.0	1958	-43 12.3	-166 45.7	4311.5	10.4	90	54854.
5	4	1967	0.0	20 3	-43 12.3	-166 44.5	4312.4	4.9	89	54848.
5	4	1967	0.0	2020	-43 12.3	-166 42.6	4313.8	9.8	90	54840.
5	4	1967	0.0	2030	-43 12.3	-166 40.2	4315.5	9.8	92	54729.
5	4	1967	0.0	23 8	-43 13.0	-166 5.0	4341.2	9.3	93	54696.
6	4	1967	0.0	0 0	-43 13.4	-165 54.0	4349.2	9.0	91	54658.
6	4	1967	0.0	056	-43 13.5	-165 42.5	4357.6	9.1	90	54586.
6	4	1967	0.0	240	-43 13.4	-165 21.0	4373.3	9.1	88	54571.
6	4	1967	0.0	3 0	-43 13.3	-165 16.8	4376.4	9.1	88	54425.
6	4	1967	0.0	619	-43 12.3	-164 35.3	4406.6	5.3	87	54417.
6	4	1967	0.0	636	-43 12.2	-164 33.2	4408.1	0.5	309	54412.
6	4	1967	0.0	1110	-43 10.9	-164 35.5	4410.2	0.7	331	54406.
6	4	1967	0.0	1252	-43 9.9	-164 36.3	4411.4	0.5	300	54406.
6	4	1967	0.0	1337	-43 9.7	-164 36.7	4411.8	4.1	90	54400.
6	4	1967	0.0	1354	-43 9.7	-164 35.1	4412.9	8.6	92	54371.
6	4	1967	0.0	1442	-43 9.9	-164 25.7	4419.8	8.6	92	54036.
7	4	1967	0.0	0 0	-43 12.5	-162 36.1	4499.7	8.4	91	54018.
7	4	1967	0.0	030	-43 12.5	-162 30.4	4503.9	9.4	91	53970.
7	4	1967	0.0	142	-43 12.8	-162 14.9	4515.2	6.3	90	53967.
7	4	1967	0.0	148	-43 12.8	-162 14.1	4515.8	6.4	92	53962.
7	4	1967	0.0	2 0	-43 12.8	-162 12.3	4517.1	6.2	92	53957.
7	4	1967	0.0	211	-43 12.9	-162 10.8	4518.2	5.9	100	53954.
7	4	1967	0.0	223	-43 13.1	-162 9.2	4519.4	4.4	100	53952.
7	4	1967	0.0	233	-43 13.2	-162 8.2	4520.1	0.5	284	53960.
7	4	1967	0.0	1019	-43 12.2	-162 13.6	4524.2	3.6	88	53960.
7	4	1967	0.0	1022	-43 12.2	-162 13.3	4524.3	4.6	91	53956.
7	4	1967	0.0	1032	-43 12.2	-162 12.3	4525.1	9.4	90	53937.
7	4	1967	0.0	11 0	-43 12.3	-162 6.2	4529.5	9.0	93	53934.
7	4	1967	0.0	11 6	-43 12.3	-162 5.0	4530.4	6.5	93	53909.
7	4	1967	0.0	12 4	-43 12.7	-161 56.4	4536.7	6.0	92	53868.
7	4	1967	0.0	1345	-43 13.1	-161 42.5	4546.8	5.0	92	53865.
7	4	1967	0.0	1352	-43 13.1	-161 41.8	4547.3	5.2	89	53864.
7	4	1967	0.0	1356	-43 13.1	-161 41.3	4547.7	10.1	91	53532.
7	4	1967	0.0	2140	-43 14.5	-159 53.7	4626.1	5.3	89	53523.
7	4	1967	0.0	22 2	-43 14.4	-159 51.0	4628.0	0.4	23	53519.
7	4	1967	0.0	2312	-43 14.0	-159 50.8	4628.5	0.8	15	53504.
8	4	1967	0.0	056	-43 12.6	-159 50.3	4629.9	0.2	64	53497.
8	4	1967	0.0	519	-43 12.2	-159 49.2	4630.8	4.9	92	53491.
8	4	1967	0.0	539	-43 12.3	-159 46.9	4632.5	10.2	92	53335.
8	4	1967	0.0	932	-43 14.0	-158 52.7	4672.0	10.4	89	53253.
8	4	1967	0.0	1116	-43 13.6	-158 28.0	4690.0	9.8	94	53251.
8	4	1967	0.0	1120	-43 13.6	-158 27.2	4690.6	9.3	94	53239.
8	4	1967	0.0	1140	-43 13.8	-158 22.9	4693.8	9.3	91	53189.
8	4	1967	0.0	1258	-43 13.9	-158 6.3	4705.8	9.7	90	53081.
8	4	1967	0.0	1533	-43 14.0	-157 32.0	4730.8	5.3	90	53071.
8	4	1967	0.0	16 0	-43 14.0	-157 28.7	4733.2	0.2	90	53064.
8	4	1967	0.0	2220	-43 14.0	-157 27.1	4734.4	0.3	14	53061.
8	4	1967	0.0	2317	-43 13.7	-157 27.1	4734.6	6.5	88	53054.
8	4	1967	0.0	2332	-43 13.6	-157 24.8	4736.3	9.7	88	53033.
9	4	1967	0.0	0 0	-43 13.5	-157 18.6	4740.8	9.5	90	52957.
9	4	1967	0.0	154	-43 13.6	-156 53.7	4758.9	9.7	90	52925.
9	4	1967	0.0	241	-43 13.6	-156 43.4	4766.5	10.0	90	52654.
9	4	1967	0.0	910	-43 14.0	-155 14.5	4831.2	4.7	88	52645.
9	4	1967	0.0	934	-43 13.9	-155 11.9	4833.1	0.3	33	52643.
9	4	1967	0.0	1022	-43 13.7	-155 11.7	4833.4	0.5	43	52633.
9	4	1967	0.0	1212	-43 13.0	-155 10.8	4834.3	0.3	2	52629.
9	4	1967	0.0	1356	-43 12.5	-155 10.8	4834.8	0.3	26	52623.
9	4	1967	0.0	1555	-43 12.1	-155 10.5	4835.3	4.9	89	52617.
9	4	1967	0.0	1614	-43 12.0	-155 8.4	4836.9	10.1	91	52400.
9	4	1967	0.0	2128	-43 12.6	-153 55.8	4889.8	10.2	92	52330.
9	4	1967	0.0	2314	-43 13.2	-153 31.2	4907.7	10.4	93	52300.
10	4	1967	0.0	0 0	-43 13.6	-153 20.2	4915.7	10.4	94	52245.
10	4	1967	0.0	130	-43 14.6	-152 58.9	4931.3	5.4	94	52238.
10	4	1967	0.0	152	-43 14.7	-152 56.3	4933.2	0.4	109	52236.
10	4	1967	0.0	934	-43 15.7	-152 52.5	4936.1	0.6	193	52246.
10	4	1967	0.0	1114	-43 16.7	-152 52.8	4937.2	0.2	176	52248.
10	4	1967	0.0	1215	-43 16.9	-152 52.8	4937.3	6.1	92	52240.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
10	4	1967	0.0	1236	-43 16.9	-152 49.9	4939.4	10.6	91	52222.
10	4	1967	0.0	13 0	-43 17.0	-152 44.0	4943.8	10.5	94	52220.
10	4	1967	0.0	13 4	-43 17.0	-152 43.1	4944.4	10.5	91	52181.
10	4	1967	0.0	14 0	-43 17.2	-152 29.7	4954.2	10.5	88	51920.
10	4	1967	0.0	1930	-43 14.9	-151 10.7	5011.8	10.5	88	51865.
10	4	1967	0.0	2040	-43 14.4	-150 53.9	5024.0	10.5	90	51820.
10	4	1967	0.0	2140	-43 14.4	-150 39.5	5034.5	7.0	89	51806.
10	4	1967	0.0	22 9	-43 14.3	-150 34.9	5037.9	0.1	8	51806.
10	4	1967	0.0	2228	-43 14.3	-150 34.8	5037.9	0.4	193	51813.
11	4	1967	0.0	010	-43 15.0	-150 35.1	5038.6	0.5	141	51828.
11	4	1967	0.0	6 9	-43 17.3	-150 32.6	5041.6	4.9	94	51822.
11	4	1967	0.0	630	-43 17.5	-150 30.2	5043.3	10.3	92	51667.
11	4	1967	0.0	1028	-43 19.0	-149 34.2	5084.1	10.6	88	51585.
11	4	1967	0.0	1212	-43 18.4	-149 9.0	5102.4	9.8	90	51573.
11	4	1967	0.0	1230	-43 18.4	-149 4.9	5105.4	10.3	90	51431.
11	4	1967	0.0	1552	-43 18.5	-148 17.5	5139.9	4.0	91	51430.
11	4	1967	0.0	1556	-43 18.5	-148 17.2	5140.1	0.2	259	51438.
11	4	1967	0.0	2134	-43 18.8	-148 19.0	5141.5	0.2	185	51442.
11	4	1967	0.0	2325	-43 19.2	-148 19.1	5142.0	5.7	92	51436.
11	4	1967	0.0	2344	-43 19.3	-148 16.6	5143.8	10.0	91	51382.
12	4	1967	0.0	1 6	-43 19.6	-147 57.9	5157.4	10.2	87	51005.
12	4	1967	0.0	856	-43 15.0	-146 7.8	5237.6	7.3	85	50991.
12	4	1967	0.0	920	-43 14.8	-146 3.8	5240.5	0.6	21	50989.
12	4	1967	0.0	938	-43 14.6	-146 3.7	5240.7	0.5	159	50995.
12	4	1967	0.0	1122	-43 15.4	-146 3.3	5241.6	0.5	165	51003.
12	4	1967	0.0	1312	-43 16.4	-146 3.0	5242.6	0.4	216	51015.
12	4	1967	0.0	1611	-43 17.3	-146 3.9	5243.7	4.9	94	51007.
12	4	1967	0.0	1636	-43 17.4	-146 1.1	5245.7	10.3	92	50911.
12	4	1967	0.0	19 0	-43 18.1	-145 27.2	5270.4	6.8	93	50901.
12	4	1967	0.0	1925	-43 18.3	-145 23.4	5273.2	10.3	92	50848.
12	4	1967	0.0	2044	-43 18.7	-145 4.9	5286.6	10.0	89	50812.
12	4	1967	0.0	2132	-43 18.5	-144 53.8	5294.7	4.8	87	50805.
12	4	1967	0.0	2152	-43 18.4	-144 51.6	5296.3	10.1	89	50778.
12	4	1967	0.0	2228	-43 18.2	-144 43.3	5302.3	10.6	89	50708.
12	4	1967	0.0	2358	-43 17.9	-144 21.5	5318.2	10.5	89	50669.
13	4	1967	0.0	049	-43 17.7	-144 9.3	5327.1	7.4	88	50662.
13	4	1967	0.0	1 1	-43 17.7	-144 7.2	5328.6	10.6	89	50590.
13	4	1967	0.0	233	-43 17.3	-143 45.0	5344.8	5.1	88	50582.
13	4	1967	0.0	253	-43 17.3	-143 42.6	5346.5	0.2	10	50567.
13	4	1967	0.0	925	-43 15.8	-143 42.3	5348.0	4.7	87	50565.
13	4	1967	0.0	930	-43 15.8	-143 41.7	5348.4	8.6	89	50559.
13	4	1967	0.0	940	-43 15.8	-143 39.8	5349.8	10.6	89	50519.
13	4	1967	0.0	1032	-43 15.6	-143 27.2	5358.9	10.2	90	50440.
13	4	1967	0.0	1220	-43 15.5	-143 2.1	5377.2	10.5	90	50424.
13	4	1967	0.0	1241	-43 15.5	-142 57.0	5380.9	7.7	90	50416.
13	4	1967	0.0	1255	-43 15.4	-142 54.5	5382.7	10.6	90	50389.
13	4	1967	0.0	1330	-43 15.4	-142 46.0	5388.9	10.4	90	50367.
13	4	1967	0.0	14 0	-43 15.4	-142 38.9	5394.1	10.5	90	50147.
13	4	1967	0.0	1851	-43 15.2	-141 28.8	5445.1	5.5	90	50141.
13	4	1967	0.0	19 4	-43 15.2	-141 27.2	5446.4	0.0	28	50140.
13	4	1967	0.0	2138	-43 15.1	-141 27.1	5446.5	0.8	198	50155.
13	4	1967	0.0	2326	-43 16.4	-141 27.7	5447.8	0.5	201	50196.
14	4	1967	0.0	630	-43 20.0	-141 29.6	5451.7	5.4	95	50191.
14	4	1967	0.0	645	-43 20.1	-141 27.7	5453.0	9.3	93	50125.
14	4	1967	0.0	838	-43 21.1	-141 3.7	5470.6	6.6	94	50119.
14	4	1967	0.0	853	-43 21.2	-141 1.4	5472.2	9.9	93	50092.
14	4	1967	0.0	935	-43 21.6	-140 52.0	5479.1	6.7	94	50088.
14	4	1967	0.0	946	-43 21.7	-140 50.2	5480.3	9.8	93	50025.
14	4	1967	0.0	1126	-43 22.5	-140 27.9	5496.6	9.8	90	50001.
14	4	1967	0.0	12 0	-43 22.5	-140 20.2	5502.2	10.4	80	49709.
14	4	1967	0.0	1642	-43 14.1	-139 14.3	5550.9	7.0	80	49695.
14	4	1967	0.0	17 2	-43 13.7	-139 11.1	5553.2	0.1	258	49699.
14	4	1967	0.0	2046	-43 13.8	-139 11.8	5553.7	0.1	77	49698.
14	4	1967	0.0	2232	-43 13.8	-139 11.7	5553.9	0.3	190	49703.
15	4	1967	0.0	020	-43 14.2	-139 11.8	5554.4	0.8	110	49701.
15	4	1967	0.0	256	-43 14.9	-139 9.2	5556.4	5.8	93	49692.
15	4	1967	0.0	321	-43 15.1	-139 5.9	5558.8	10.7	91	49607.
15	4	1967	0.0	515	-43 15.6	-138 37.9	5579.2	9.3	268	49617.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
15	4	1967	0.0	530	-43 15.6	-138 41.1	5581.5	9.3	268	49701.
15	4	1967	0.0	725	-43 16.2	-139 5.5	5599.3	9.3	4	49608.
15	4	1967	0.0	825	-43 6.9	-139 4.6	5608.6	10.2	92	49590.
15	4	1967	0.0	850	-43 7.0	-138 58.8	5612.8	9.8	89	49514.
15	4	1967	0.0	1034	-43 6.9	-138 35.6	5629.7	10.1	93	49496.
15	4	1967	0.0	11 1	-43 7.1	-138 29.3	5634.3	9.0	176	49583.
15	4	1967	0.0	12 2	-43 16.2	-138 28.6	5643.4	4.5	263	49592.
15	4	1967	0.0	1226	-43 16.4	-138 31.0	5645.2	4.8	264	49595.
15	4	1967	0.0	1232	-43 16.5	-138 31.6	5645.7	6.8	266	49665.
15	4	1967	0.0	1430	-43 17.5	-138 50.1	5659.1	5.1	264	49668.
15	4	1967	0.0	1438	-43 17.6	-138 51.0	5659.8	6.6	95	49667.
15	4	1967	0.0	1441	-43 17.6	-138 50.6	5660.1	9.2	93	49624.
15	4	1967	0.0	1554	-43 18.2	-138 35.3	5671.3	6.2	95	49616.
15	4	1967	0.0	1615	-43 18.4	-138 32.3	5673.4	9.3	93	49589.
15	4	1967	0.0	17 0	-43 18.8	-138 22.7	5680.4	9.7	93	49532.
15	4	1967	0.0	1830	-43 19.6	-138 2.8	5694.9	9.7	90	49402.
15	4	1967	0.0	2130	-43 19.7	-137 22.9	5723.9	9.3	90	49377.
15	4	1967	0.0	22 6	-43 19.7	-137 15.3	5729.4	9.1	88	49332.
15	4	1967	0.0	23 8	-43 19.5	-137 2.3	5738.9	10.0	122	49333.
15	4	1967	0.0	2312	-43 19.8	-137 1.6	5739.5	9.1	88	49321.
15	4	1967	0.0	2328	-43 19.7	-136 58.3	5741.9	9.2	82	49292.
16	4	1967	0.0	0 0	-43 19.0	-136 51.6	5746.9	5.3	80	49282.
16	4	1967	0.0	019	-43 18.7	-136 49.3	5748.5	0.5	17	49237.
16	4	1967	0.0	815	-43 14.9	-136 47.7	5752.6	6.2	90	49227.
16	4	1967	0.0	836	-43 14.9	-136 44.8	5754.7	9.6	92	49182.
16	4	1967	0.0	944	-43 15.3	-136 29.8	5765.6	8.7	92	49164.
16	4	1967	0.0	1012	-43 15.4	-136 24.2	5769.7	0.0	90	49164.
16	4	1967	0.0	1012	-43 15.4	-136 24.2	5769.7	8.8	87	49150.
16	4	1967	0.0	1030	-43 15.3	-136 20.5	5772.4	8.7	87	49112.
16	4	1967	0.0	1122	-43 14.8	-136 10.3	5779.9	9.7	356	49096.
16	4	1967	0.0	1132	-43 13.2	-136 10.4	5781.5	9.8	3	49083.
16	4	1967	0.0	1140	-43 11.9	-136 10.3	5782.8	9.5	86	49056.
16	4	1967	0.0	1213	-43 11.5	-136 3.2	5788.0	9.5	91	48767.
16	4	1967	0.0	19 0	-43 12.7	-134 34.7	5852.5	10.3	91	48760.
16	4	1967	0.0	1910	-43 12.7	-134 32.4	5854.2	5.5	88	48752.
16	4	1967	0.0	1927	-43 12.7	-134 30.3	5855.8	0.8	41	48740.
16	4	1967	0.0	2050	-43 11.8	-134 29.3	5856.9	0.6	121	48742.
16	4	1967	0.0	2238	-43 12.4	-134 27.9	5858.1	0.3	158	48754.
17	4	1967	0.0	527	-43 14.0	-134 27.0	5859.8	6.0	96	48747.
17	4	1967	0.0	545	-43 14.2	-134 24.5	5861.6	8.0	96	48738.
17	4	1967	0.0	6 5	-43 14.5	-134 20.9	5864.3	10.1	95	48629.
17	4	1967	0.0	854	-43 17.1	-133 41.9	5892.8	10.2	91	48617.
17	4	1967	0.0	9 9	-43 17.2	-133 38.5	5895.3	10.2	88	48537.
17	4	1967	0.0	1040	-43 16.5	-133 17.2	5910.8	10.4	90	48513.
17	4	1967	0.0	11 8	-43 16.5	-133 10.5	5915.7	10.3	85	48295.
17	4	1967	0.0	1451	-43 13.1	-132 18.1	5954.0	5.4	85	48277.
17	4	1967	0.0	1524	-43 12.8	-132 14.0	5957.0	0.3	80	48268.
17	4	1967	0.0	20 0	-43 12.5	-132 12.0	5958.5	0.6	77	48260.
17	4	1967	0.0	2146	-43 12.3	-132 10.5	5959.6	0.4	174	48267.
17	4	1967	0.0	2330	-43 13.0	-132 10.4	5960.4	4.9	95	48265.
17	4	1967	0.0	2334	-43 13.0	-132 9.9	5960.7	3.8	93	48263.
17	4	1967	0.0	2344	-43 13.1	-132 9.1	5961.3	1.1	260	48267.
18	4	1967	0.0	022	-43 13.2	-132 10.0	5962.0	9.0	94	48258.
18	4	1967	0.0	037	-43 13.3	-132 6.9	5964.2	1.1	260	48260.
18	4	1967	0.0	055	-43 13.4	-132 7.3	5964.5	8.9	94	48248.
18	4	1967	0.0	114	-43 13.6	-132 3.5	5967.3	1.1	260	48251.
18	4	1967	0.0	136	-43 13.7	-132 4.1	5967.7	9.0	94	48240.
18	4	1967	0.0	153	-43 13.9	-132 0.5	5970.3	1.1	260	48243.
18	4	1967	0.0	215	-43 13.9	-132 1.0	5970.7	8.7	94	48232.
18	4	1967	0.0	233	-43 14.2	-131 57.5	5973.3	1.1	260	48235.
18	4	1967	0.0	257	-43 14.2	-131 58.0	5973.7	9.0	94	48223.
18	4	1967	0.0	316	-43 14.4	-131 54.1	5976.6	1.1	260	48224.
18	4	1967	0.0	330	-43 14.5	-131 54.4	5976.8	9.1	94	48214.
18	4	1967	0.0	346	-43 14.7	-131 51.1	5979.3	1.0	260	48217.
18	4	1967	0.0	4 8	-43 14.7	-131 51.6	5979.6	8.9	94	48207.
18	4	1967	0.0	425	-43 14.9	-131 48.2	5982.2	1.0	260	48208.
18	4	1967	0.0	440	-43 15.0	-131 48.6	5982.4	8.9	94	48198.
18	4	1967	0.0	457	-43 15.2	-131 45.1	5984.9	1.0	260	48200.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
18	4	1967	0.0	512	-43 15.2	-131 45.5	5985.2	8.9	94	48189.
18	4	1967	0.0	529	-43 15.4	-131 42.0	5987.7	1.1	260	48191.
18	4	1967	0.0	549	-43 15.5	-131 42.5	5988.1	9.1	94	48181.
18	4	1967	0.0	6 5	-43 15.7	-131 39.2	5990.5	1.1	260	48183.
18	4	1967	0.0	621	-43 15.7	-131 39.6	5990.8	8.8	94	48171.
18	4	1967	0.0	641	-43 15.9	-131 35.5	5993.7	1.0	260	48173.
18	4	1967	0.0	656	-43 16.0	-131 35.9	5994.0	9.1	94	48160.
18	4	1967	0.0	716	-43 16.2	-131 31.7	5997.0	1.1	260	48162.
18	4	1967	0.0	733	-43 16.3	-131 32.1	5997.3	9.1	94	48148.
18	4	1967	0.0	755	-43 16.5	-131 27.5	6000.7	1.0	260	48149.
18	4	1967	0.0	8 4	-43 16.5	-131 27.7	6000.8	0.9	257	48150.
18	4	1967	0.0	810	-43 16.6	-131 27.9	6000.9	8.9	91	48137.
18	4	1967	0.0	828	-43 16.6	-131 24.2	6003.5	0.9	257	48139.
18	4	1967	0.0	841	-43 16.7	-131 24.5	6003.7	9.4	91	48128.
18	4	1967	0.0	855	-43 16.7	-131 21.5	6005.9	0.9	257	48131.
18	4	1967	0.0	922	-43 16.8	-131 22.0	6006.3	9.1	91	48120.
18	4	1967	0.0	937	-43 16.9	-131 18.9	6008.6	0.9	257	48122.
18	4	1967	0.0	948	-43 16.9	-131 19.1	6008.8	1.0	268	48122.
18	4	1967	0.0	955	-43 16.9	-131 19.3	6008.9	9.1	90	48109.
18	4	1967	0.0	1013	-43 16.9	-131 15.5	6011.6	1.0	268	48111.
18	4	1967	0.0	1040	-43 16.9	-131 16.2	6012.1	8.8	90	48101.
18	4	1967	0.0	1054	-43 17.0	-131 13.3	6014.1	1.0	268	48104.
18	4	1967	0.0	1122	-43 17.0	-131 14.0	6014.6	9.1	90	48093.
18	4	1967	0.0	1136	-43 17.0	-131 11.0	6016.7	9.0	89	48088.
18	4	1967	0.0	1142	-43 17.0	-131 9.8	6017.6	1.2	279	48090.
18	4	1967	0.0	1212	-43 16.9	-131 10.6	6018.2	8.7	89	48080.
18	4	1967	0.0	1226	-43 16.8	-131 7.8	6020.2	1.2	279	48081.
18	4	1967	0.0	1250	-43 16.8	-131 8.4	6020.7	9.0	89	48067.
18	4	1967	0.0	13 8	-43 16.7	-131 4.6	6023.5	1.2	279	48069.
18	4	1967	0.0	1330	-43 16.6	-131 5.2	6023.9	8.9	89	48057.
18	4	1967	0.0	1345	-43 16.6	-131 2.2	6026.1	1.2	279	48059.
18	4	1967	0.0	14 7	-43 16.5	-131 2.8	6026.5	8.8	89	48041.
18	4	1967	0.0	1430	-43 16.5	-130 58.0	6030.0	1.2	279	48042.
18	4	1967	0.0	1450	-43 16.4	-130 58.5	6030.4	8.7	87	48029.
18	4	1967	0.0	15 6	-43 16.3	-130 55.4	6032.7	1.2	279	48031.
18	4	1967	0.0	1525	-43 16.2	-130 55.9	6033.0	9.1	87	48019.
18	4	1967	0.0	1539	-43 16.1	-130 53.0	6035.2	1.2	279	48020.
18	4	1967	0.0	1557	-43 16.0	-130 53.4	6035.5	8.7	87	48007.
18	4	1967	0.0	1613	-43 15.9	-130 50.3	6037.8	1.2	279	48008.
18	4	1967	0.0	1631	-43 15.8	-130 50.8	6038.2	8.8	87	47995.
18	4	1967	0.0	1648	-43 15.7	-130 47.4	6040.6	1.2	279	47996.
18	4	1967	0.0	17 5	-43 15.6	-130 47.8	6041.0	9.0	87	47981.
18	4	1967	0.0	1723	-43 15.5	-130 44.0	6043.7	1.2	279	47981.
18	4	1967	0.0	1737	-43 15.4	-130 44.4	6044.0	7.8	86	47967.
18	4	1967	0.0	1757	-43 15.3	-130 40.8	6046.6	1.2	279	47968.
18	4	1967	0.0	1814	-43 15.2	-130 41.3	6046.9	7.9	86	47954.
18	4	1967	0.0	1833	-43 15.1	-130 37.8	6049.5	1.2	279	47955.
18	4	1967	0.0	1846	-43 15.0	-130 38.1	6049.7	8.0	86	47941.
18	4	1967	0.0	19 4	-43 14.9	-130 34.9	6052.1	1.2	279	47942.
18	4	1967	0.0	1910	-43 14.9	-130 35.1	6052.2	1.2	282	47942.
18	4	1967	0.0	1917	-43 14.8	-130 35.3	6052.3	7.6	86	47929.
18	4	1967	0.0	1935	-43 14.7	-130 32.2	6054.6	1.2	282	47930.
18	4	1967	0.0	1948	-43 14.6	-130 32.5	6054.9	7.9	88	47918.
18	4	1967	0.0	20 6	-43 14.6	-130 29.3	6057.2	1.2	281	47918.
18	4	1967	0.0	2017	-43 14.5	-130 29.6	6057.4	8.0	88	47904.
18	4	1967	0.0	2037	-43 14.4	-130 26.0	6060.1	1.2	281	47905.
18	4	1967	0.0	2050	-43 14.4	-130 26.3	6060.3	7.7	88	47901.
18	4	1967	0.0	2056	-43 14.4	-130 25.3	6061.1	8.8	87	47892.
18	4	1967	0.0	21 7	-43 14.3	-130 23.1	6062.7	0.5	347	47891.
18	4	1967	0.0	2118	-43 14.2	-130 23.1	6062.8	9.0	87	47877.
18	4	1967	0.0	2136	-43 14.0	-130 19.5	6065.4	0.5	347	47876.
18	4	1967	0.0	2150	-43 13.9	-130 19.5	6065.6	8.6	89	47861.
18	4	1967	0.0	22 9	-43 13.9	-130 15.7	6068.3	0.5	347	47860.
18	4	1967	0.0	2223	-43 13.8	-130 15.8	6068.4	9.1	89	47848.
18	4	1967	0.0	2238	-43 13.7	-130 12.6	6070.7	0.5	345	47848.
18	4	1967	0.0	2242	-43 13.7	-130 12.6	6070.7	0.2	125	47848.
18	4	1967	0.0	2252	-43 13.7	-130 12.6	6070.8	8.9	96	47834.
18	4	1967	0.0	23 8	-43 13.9	-130 9.3	6073.2	0.2	126	47834.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
18	4	1967	0.0	2322	-43 14.0	-130 9.2	6073.3	9.4	96	47829.
18	4	1967	0.0	2337	-43 14.2	-130 6.0	6075.6	0.2	126	47829.
18	4	1967	0.0	2352	-43 14.2	-130 6.0	6075.6	9.0	101	47822.
19	4	1967	0.0	0 7	-43 14.6	-130 2.9	6077.9	0.2	126	47822.
19	4	1967	0.0	022	-43 14.7	-130 2.9	6077.9	9.2	101	47813.
19	4	1967	0.0	039	-43 15.2	-129 59.3	6080.6	0.2	126	47814.
19	4	1967	0.0	052	-43 15.2	-129 59.3	6080.6	9.3	101	47805.
19	4	1967	0.0	1 8	-43 15.6	-129 55.8	6083.2	0.2	126	47805.
19	4	1967	0.0	120	-43 15.7	-129 55.8	6083.2	9.2	101	47798.
19	4	1967	0.0	136	-43 16.1	-129 52.5	6085.7	0.2	127	47800.
19	4	1967	0.0	714	-43 16.8	-129 51.2	6086.8	0.1	192	47800.
19	4	1967	0.0	8 3	-43 16.9	-129 51.3	6086.8	5.1	91	47793.
19	4	1967	0.0	822	-43 16.9	-129 49.1	6088.4	10.0	91	47763.
19	4	1967	0.0	858	-43 16.9	-129 40.8	6094.4	10.1	88	47665.
19	4	1967	0.0	1044	-43 16.2	-129 16.5	6112.2	10.2	89	47290.
19	4	1967	0.0	1740	-43 15.6	-127 39.0	6183.2	5.4	89	47281.
19	4	1967	0.0	1759	-43 15.5	-127 36.7	6184.9	0.3	69	47276.
19	4	1967	0.0	20 4	-43 15.3	-127 36.0	6185.4	0.1	213	47277.
19	4	1967	0.0	2150	-43 15.4	-127 36.1	6185.5	0.4	227	47292.
20	4	1967	0.0	110	-43 16.4	-127 37.5	6186.9	4.7	93	47287.
20	4	1967	0.0	123	-43 16.4	-127 36.1	6188.0	9.7	92	47043.
20	4	1967	0.0	624	-43 17.9	-126 29.4	6236.5	10.1	90	47014.
20	4	1967	0.0	657	-43 17.9	-126 21.8	6242.1	10.1	87	46946.
20	4	1967	0.0	8 6	-43 17.4	-126 5.9	6253.6	10.3	89	46843.
20	4	1967	0.0	952	-43 16.9	-125 41.0	6271.8	10.1	86	46760.
20	4	1967	0.0	1113	-43 16.0	-125 22.3	6285.4	6.3	86	46748.
20	4	1967	0.0	1132	-43 15.9	-125 19.6	6287.4	0.2	25	46745.
20	4	1967	0.0	13 8	-43 15.7	-125 19.4	6287.7	0.4	303	46744.
20	4	1967	0.0	1636	-43 14.9	-125 21.0	6289.1	0.5	285	46746.
20	4	1967	0.0	1818	-43 14.7	-125 22.2	6289.9	4.5	88	46734.
20	4	1967	0.0	1847	-43 14.6	-125 19.2	6292.1	8.6	89	46723.
20	4	1967	0.0	19 0	-43 14.6	-125 16.6	6294.0	9.5	89	46711.
20	4	1967	0.0	1914	-43 14.5	-125 13.7	6296.1	9.3	93	46628.
20	4	1967	0.0	21 0	-43 15.3	-124 51.2	6312.6	9.5	94	46545.
20	4	1967	0.0	2248	-43 16.5	-124 27.8	6329.6	9.2	95	46521.
20	4	1967	0.0	2322	-43 16.9	-124 20.7	6334.8	9.2	92	46434.
21	4	1967	0.0	110	-43 17.4	-123 58.0	6351.3	9.7	91	46322.
21	4	1967	0.0	316	-43 17.7	-123 30.0	6371.7	9.9	82	46306.
21	4	1967	0.0	330	-43 17.4	-123 26.9	6374.0	9.1	83	46192.
21	4	1967	0.0	519	-43 15.3	-123 4.4	6390.5	4.5	87	46183.
21	4	1967	0.0	540	-43 15.2	-123 2.2	6392.1	0.7	203	46195.
21	4	1967	0.0	716	-43 16.3	-123 2.8	6393.2	0.2	253	46198.
21	4	1967	0.0	9 8	-43 16.4	-123 3.3	6393.6	0.9	240	46214.
21	4	1967	0.0	1052	-43 17.2	-123 5.2	6395.2	0.3	223	46218.
21	4	1967	0.0	12 5	-43 17.4	-123 5.5	6395.5	5.0	93	46208.
21	4	1967	0.0	1227	-43 17.5	-123 3.0	6397.4	8.8	92	46134.
21	4	1967	0.0	14 0	-43 17.9	-122 44.3	6411.0	8.7	81	46024.
21	4	1967	0.0	1546	-43 15.6	-122 23.3	6426.4	9.0	88	46008.
21	4	1967	0.0	16 3	-43 15.5	-122 19.9	6429.0	9.3	91	45933.
21	4	1967	0.0	1730	-43 15.8	-122 1.3	6442.5	9.7	85	45875.
21	4	1967	0.0	1824	-43 15.0	-121 49.3	6451.3	9.5	84	45764.
21	4	1967	0.0	20 8	-43 13.4	-121 26.9	6467.7	10.5	84	45736.
21	4	1967	0.0	2032	-43 12.9	-121 21.2	6471.8	10.8	91	45648.
21	4	1967	0.0	2158	-43 13.1	-121 0.1	6487.2	9.6	94	45580.
21	4	1967	0.0	2318	-43 14.0	-120 42.6	6500.0	5.1	95	45573.
21	4	1967	0.0	2336	-43 14.1	-120 40.5	6501.6	0.3	168	45583.
22	4	1967	0.0	344	-43 15.4	-120 40.1	6502.9	0.6	204	45592.
22	4	1967	0.0	5 0	-43 16.1	-120 40.5	6503.6	4.5	97	45588.
22	4	1967	0.0	5 9	-43 16.2	-120 39.6	6504.3	9.8	93	45566.
22	4	1967	0.0	534	-43 16.4	-120 34.0	6508.3	11.4	87	45528.
22	4	1967	0.0	6 6	-43 16.1	-120 25.7	6514.4	7.0	86	45516.
22	4	1967	0.0	622	-43 16.0	-120 23.2	6516.2	11.3	87	45508.
22	4	1967	0.0	628	-43 15.9	-120 21.6	6517.4	9.6	90	45506.
22	4	1967	0.0	630	-43 15.9	-120 21.1	6517.8	9.2	90	45504.
22	4	1967	0.0	632	-43 15.9	-120 20.7	6518.0	3.8	89	45499.
22	4	1967	0.0	645	-43 15.9	-120 19.6	6518.9	9.7	90	45313.
22	4	1967	0.0	958	-43 15.8	-119 37.0	6549.9	9.6	92	45142.
22	4	1967	0.0	13 4	-43 16.8	-118 56.0	6579.8	10.3	94	45116.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
22	4	1967	0.0	1331	-43 17.2	-118 49.6	6584.4	10.2	88	45020.
22	4	1967	0.0	15 0	-43 16.7	-118 28.8	6599.6	5.3	92	45008.
22	4	1967	0.0	1524	-43 16.8	-118 25.9	6601.7	9.3	89	45000.
22	4	1967	0.0	1532	-43 16.8	-118 24.2	6602.9	0.8	159	45005.
22	4	1967	0.0	1636	-43 17.6	-118 23.8	6603.8	0.4	157	45013.
22	4	1967	0.0	1918	-43 18.7	-118 23.2	6604.9	0.1	32	45011.
22	4	1967	0.0	22 2	-43 18.5	-118 23.0	6605.1	5.2	86	44999.
22	4	1967	0.0	2222	-43 18.4	-118 20.7	6606.8	9.5	87	44824.
23	4	1967	0.0	1 6	-43 16.9	-117 44.9	6632.9	9.7	86	44708.
23	4	1967	0.0	250	-43 15.6	-117 21.9	6649.7	9.1	86	44687.
23	4	1967	0.0	310	-43 15.4	-117 17.8	6652.7	9.1	89	44604.
23	4	1967	0.0	436	-43 15.2	-117 0.0	6665.7	9.4	91	44445.
23	4	1967	0.0	720	-43 15.5	-116 24.7	6691.4	10.2	93	44373.
23	4	1967	0.0	832	-43 16.1	-116 7.9	6703.6	5.8	95	44362.
23	4	1967	0.0	853	-43 16.3	-116 5.1	6705.7	0.8	129	44362.
23	4	1967	0.0	9 6	-43 16.4	-116 4.9	6705.8	0.7	187	44395.
23	4	1967	0.0	1354	-43 19.7	-116 5.5	6709.1	0.5	48	44391.
23	4	1967	0.0	1437	-43 19.4	-116 5.1	6709.5	5.5	82	44381.
23	4	1967	0.0	1451	-43 19.2	-116 3.3	6710.8	10.4	83	44101.
23	4	1967	0.0	1826	-43 14.9	-115 12.4	6748.1	11.2	83	44073.
23	4	1967	0.0	1845	-43 14.4	-115 7.5	6751.7	11.3	87	44033.
23	4	1967	0.0	1916	-43 14.2	-114 59.5	6757.5	6.1	85	44017.
23	4	1967	0.0	1938	-43 14.0	-114 56.5	6759.7	1.3	66	44010.
23	4	1967	0.0	2014	-43 13.7	-114 55.5	6760.5	0.8	223	44023.
23	4	1967	0.0	2143	-43 14.5	-114 56.6	6761.6	4.4	98	44016.
23	4	1967	0.0	22 0	-43 14.7	-114 54.9	6762.9	9.5	93	44013.
23	4	1967	0.0	22 4	-43 14.7	-114 54.0	6763.5	9.7	86	43863.
24	4	1967	0.0	014	-43 13.3	-114 25.2	6784.6	10.2	92	43721.
24	4	1967	0.0	230	-43 14.4	-113 53.3	6807.9	6.3	94	43703.
24	4	1967	0.0	259	-43 14.6	-113 49.1	6810.9	0.5	153	43712.
24	4	1967	0.0	628	-43 16.1	-113 48.0	6812.6	0.9	114	43709.
24	4	1967	0.0	816	-43 16.7	-113 46.1	6814.2	0.1	63	43708.
24	4	1967	0.0	844	-43 16.7	-113 46.0	6814.2	5.1	89	43693.
24	4	1967	0.0	9 9	-43 16.7	-113 43.0	6816.4	10.1	90	43632.
24	4	1967	0.0	10 4	-43 16.6	-113 30.4	6825.6	10.3	87	43419.
24	4	1967	0.0	13 0	-43 15.2	-112 49.0	6855.7	10.6	90	43371.
24	4	1967	0.0	1341	-43 15.2	-112 39.2	6862.9	5.5	90	43356.
24	4	1967	0.0	14 7	-43 15.3	-112 35.9	6865.3	0.6	94	43350.
24	4	1967	0.0	1537	-43 15.3	-112 34.7	6866.2	5.7	90	43335.
24	4	1967	0.0	16 0	-43 15.3	-112 31.6	6868.4	10.6	90	43298.
24	4	1967	0.0	1632	-43 15.4	-112 23.9	6874.1	10.1	87	43221.
24	4	1967	0.0	1736	-43 14.8	-112 9.1	6884.8	10.0	89	43099.
24	4	1967	0.0	1922	-43 14.6	-111 44.9	6902.5	11.2	91	43039.
24	4	1967	0.0	2010	-43 14.6	-111 32.5	6911.5	5.7	91	43026.
24	4	1967	0.0	2030	-43 14.7	-111 29.8	6913.4	1.2	95	43020.
24	4	1967	0.0	2116	-43 14.8	-111 28.5	6914.4	0.7	141	43032.
25	4	1967	0.0	246	-43 17.9	-111 25.0	6918.4	0.3	176	43032.
25	4	1967	0.0	252	-43 18.0	-111 25.0	6918.5	5.1	91	43024.
25	4	1967	0.0	3 6	-43 18.0	-111 23.4	6919.7	10.0	89	42843.
25	4	1967	0.0	540	-43 17.5	-110 48.0	6945.4	9.8	83	42708.
25	4	1967	0.0	724	-43 15.4	-110 24.7	6962.5	5.7	80	42706.
25	4	1967	0.0	726	-43 15.3	-110 24.5	6962.7	5.9	86	42678.
25	4	1967	0.0	8 5	-43 15.1	-110 19.3	6966.5	0.1	348	42677.
25	4	1967	0.0	914	-43 15.0	-110 19.3	6966.6	0.8	348	42674.
25	4	1967	0.0	943	-43 14.6	-110 19.4	6967.0	5.0	81	42660.
25	4	1967	0.0	10 3	-43 14.3	-110 17.2	6968.6	9.9	85	42509.
25	4	1967	0.0	12 4	-43 12.8	-109 49.9	6988.5	10.1	88	42442.
25	4	1967	0.0	1259	-43 12.5	-109 37.2	6997.8	10.1	96	42355.
25	4	1967	0.0	1425	-43 14.0	-109 17.4	7012.3	5.1	94	42343.
25	4	1967	0.0	1448	-43 14.1	-109 14.7	7014.3	0.4	23	42340.
25	4	1967	0.0	1538	-43 13.9	-109 14.5	7014.6	0.6	120	42337.
25	4	1967	0.0	1832	-43 14.7	-109 12.6	7016.2	0.6	136	42339.
25	4	1967	0.0	2018	-43 15.4	-109 11.6	7017.3	0.1	22	42335.
25	4	1967	0.0	2244	-43 15.2	-109 11.4	7017.6	5.0	89	42324.
25	4	1967	0.0	23 3	-43 15.1	-109 9.2	7019.2	10.1	89	42122.
26	4	1967	0.0	152	-43 14.8	-108 30.4	7047.5	11.3	88	42088.
26	4	1967	0.0	216	-43 14.6	-108 24.1	7052.1	11.3	91	41981.
26	4	1967	0.0	338	-43 14.9	-108 2.9	7067.5	10.0	91	41895.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
26	4	1967	0.0	452	-43 15.0	-107 46.0	7079.8	10.2	91	41775.
26	4	1967	0.0	632	-43 15.2	-107 22.5	7097.0	10.4	91	41703.
26	4	1967	0.0	730	-43 15.3	-107 8.6	7107.1	10.5	87	41649.
26	4	1967	0.0	811	-43 14.9	-106 58.8	7114.2	5.2	84	41641.
26	4	1967	0.0	822	-43 14.8	-106 57.5	7115.1	5.1	93	41636.
26	4	1967	0.0	830	-43 14.9	-106 56.6	7115.8	5.4	93	41630.
26	4	1967	0.0	841	-43 14.9	-106 55.2	7116.8	0.5	126	41629.
26	4	1967	0.0	1112	-43 15.6	-106 54.0	7118.0	0.7	193	41643.
26	4	1967	0.0	13 2	-43 16.9	-106 54.4	7119.3	0.4	248	41644.
26	4	1967	0.0	1318	-43 16.9	-106 54.5	7119.4	4.7	88	41632.
26	4	1967	0.0	1338	-43 16.9	-106 52.3	7121.0	10.1	88	41322.
26	4	1967	0.0	1740	-43 15.2	-105 56.2	7161.9	10.9	87	41296.
26	4	1967	0.0	1759	-43 15.0	-105 51.5	7165.3	10.9	90	41177.
26	4	1967	0.0	1928	-43 15.0	-105 29.4	7181.4	10.5	90	40903.
26	4	1967	0.0	23 0	-43 14.8	-104 38.3	7218.6	5.0	89	40895.
26	4	1967	0.0	2314	-43 14.8	-104 36.7	7219.7	5.5	91	40893.
26	4	1967	0.0	2317	-43 14.8	-104 36.3	7220.0	0.5	102	40875.
27	4	1967	0.0	542	-43 15.4	-104 32.1	7223.2	0.3	85	40875.
27	4	1967	0.0	555	-43 15.4	-104 32.0	7223.3	5.3	90	40863.
27	4	1967	0.0	613	-43 15.4	-104 29.8	7224.9	10.3	90	40841.
27	4	1967	0.0	630	-43 15.4	-104 25.7	7227.8	5.3	90	40818.
27	4	1967	0.0	7 5	-43 15.4	-104 21.5	7230.9	10.3	90	40789.
27	4	1967	0.0	728	-43 15.4	-104 16.1	7234.8	10.2	89	40699.
27	4	1967	0.0	838	-43 15.2	-103 59.7	7246.8	5.4	88	40691.
27	4	1967	0.0	850	-43 15.1	-103 58.3	7247.8	10.2	89	40655.
27	4	1967	0.0	918	-43 15.0	-103 51.7	7252.6	10.7	89	40426.
27	4	1967	0.0	12 6	-43 14.3	-103 10.7	7282.5	10.8	91	40354.
27	4	1967	0.0	13 0	-43 14.4	-102 57.2	7292.3	10.8	91	40274.
27	4	1967	0.0	14 0	-43 14.6	-102 42.4	7303.1	10.8	93	40172.
27	4	1967	0.0	1520	-43 15.2	-102 22.6	7317.5	5.9	93	40161.
27	4	1967	0.0	1536	-43 15.3	-102 20.5	7319.1	5.3	90	40158.
27	4	1967	0.0	1541	-43 15.3	-102 19.9	7319.5	3.6	89	40155.
27	4	1967	0.0	1546	-43 15.3	-102 19.4	7319.9	0.3	36	40147.
27	4	1967	0.0	1836	-43 14.7	-102 18.8	7320.6	1.2	92	40131.
27	4	1967	0.0	2026	-43 14.8	-102 15.8	7322.8	0.2	16	40128.
27	4	1967	0.0	2133	-43 14.6	-102 15.7	7323.0	5.0	88	40117.
27	4	1967	0.0	2150	-43 14.5	-102 13.8	7324.4	10.1	89	39802.
28	4	1967	0.0	154	-43 13.7	-101 17.6	7365.4	10.2	89	39754.
28	4	1967	0.0	230	-43 13.6	-101 9.2	7371.5	10.2	90	39667.
28	4	1967	0.0	338	-43 13.7	-100 53.4	7383.0	10.3	93	39400.
28	4	1967	0.0	713	-43 15.3	-100 2.8	7419.9	6.6	93	39384.
28	4	1967	0.0	733	-43 15.4	-99 59.8	7422.1	0.3	110	39383.
28	4	1967	0.0	830	-43 15.5	-99 59.4	7422.4	0.6	78	39369.
28	4	1967	0.0	11 8	-43 15.2	-99 57.4	7423.9	0.6	138	39371.
28	4	1967	0.0	1332	-43 16.3	-99 56.1	7425.3	4.5	96	39356.
28	4	1967	0.0	14 0	-43 16.5	-99 53.2	7427.4	10.4	92	39298.
28	4	1967	0.0	1446	-43 16.8	-99 42.3	7435.3	9.8	87	39201.
28	4	1967	0.0	16 0	-43 16.2	-99 25.8	7447.4	10.1	83	39047.
28	4	1967	0.0	1746	-43 14.1	-99 1.5	7465.2	10.3	90	38995.
28	4	1967	0.0	1825	-43 14.1	-98 52.4	7471.9	5.3	90	38983.
28	4	1967	0.0	1843	-43 14.1	-98 50.2	7473.4	0.3	83	38981.
28	4	1967	0.0	1932	-43 14.1	-98 49.9	7473.7	0.1	252	38981.
28	4	1967	0.0	1945	-43 14.1	-98 49.9	7473.7	3.8	90	38973.
28	4	1967	0.0	20 2	-43 14.1	-98 48.4	7474.8	10.4	90	38719.
28	4	1967	0.0	2312	-43 14.2	-98 3.2	7507.7	11.1	87	38568.
29	4	1967	0.0	052	-43 13.2	-97 37.9	7526.2	5.2	84	38566.
29	4	1967	0.0	054	-43 13.2	-97 37.6	7526.4	4.1	96	38558.
29	4	1967	0.0	110	-43 13.3	-97 36.1	7527.5	0.6	230	38579.
29	4	1967	0.0	4 4	-43 14.5	-97 38.0	7529.3	0.3	134	38579.
29	4	1967	0.0	546	-43 14.8	-97 37.5	7529.8	0.9	150	38584.
29	4	1967	0.0	726	-43 16.1	-97 36.5	7531.3	5.0	99	38580.
29	4	1967	0.0	734	-43 16.2	-97 35.6	7531.9	4.9	101	38576.
29	4	1967	0.0	742	-43 16.3	-97 34.7	7532.6	8.8	96	38283.
29	4	1967	0.0	1230	-43 20.6	-96 36.8	7574.9	8.7	92	38184.
29	4	1967	0.0	14 0	-43 21.1	-96 18.9	7588.0	8.2	92	38164.
29	4	1967	0.0	1420	-43 21.2	-96 15.2	7590.6	8.2	82	38152.
29	4	1967	0.0	1430	-43 21.0	-96 13.3	7592.1	8.1	83	38076.
29	4	1967	0.0	1534	-43 19.9	-96 1.6	7600.6	7.4	80	38046.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
29	4	1967	0.0	16 0	-43 19.3	-95 57.3	7603.9	7.3	80	37986.
29	4	1967	0.0	1654	-43 18.2	-95 48.3	7610.5	7.6	85	37894.
29	4	1967	0.0	1820	-43 17.3	-95 33.5	7621.3	7.2	57	37875.
29	4	1967	0.0	1834	-43 16.4	-95 31.6	7623.0	4.2	62	37866.
29	4	1967	0.0	1846	-43 15.9	-95 30.5	7623.8	4.4	48	37856.
29	4	1967	0.0	1859	-43 15.3	-95 29.6	7624.7	0.7	241	37867.
29	4	1967	0.0	2030	-43 15.8	-95 30.8	7625.8	0.4	252	37881.
29	4	1967	0.0	2358	-43 16.3	-95 32.7	7627.2	0.4	213	37889.
30	4	1967	0.0	146	-43 16.9	-95 33.2	7627.9	0.6	200	37922.
30	4	1967	0.0	642	-43 19.8	-95 34.8	7631.1	0.3	209	37933.
30	4	1967	0.0	941	-43 20.7	-95 35.4	7632.0	4.8	88	37921.
30	4	1967	0.0	958	-43 20.6	-95 33.5	7633.4	9.8	92	37834.
30	4	1967	0.0	11 8	-43 20.9	-95 17.7	7644.9	9.6	89	37798.
30	4	1967	0.0	1136	-43 20.9	-95 11.6	7649.3	9.7	81	37528.
30	4	1967	0.0	1440	-43 16.0	-94 31.3	7679.1	9.7	81	37498.
30	4	1967	0.0	15 0	-43 15.5	-94 26.9	7682.3	9.6	87	37216.
30	4	1967	0.0	1831	-43 13.6	-93 40.5	7716.1	9.6	90	37131.
30	4	1967	0.0	1938	-43 13.5	-93 25.7	7726.9	9.9	91	37127.
30	4	1967	0.0	1942	-43 13.5	-93 24.9	7727.5	4.4	93	37118.
30	4	1967	0.0	1958	-43 13.6	-93 23.3	7728.7	0.3	219	37127.
30	4	1967	0.0	23 6	-43 14.2	-93 24.0	7729.5	0.2	180	37130.
1	5	1967	0.0	054	-43 14.6	-93 24.0	7729.9	0.9	198	37151.
1	5	1967	0.0	323	-43 16.7	-93 25.0	7732.1	4.3	101	37143.
1	5	1967	0.0	342	-43 16.9	-93 23.2	7733.4	9.8	95	37115.
1	5	1967	0.0	4 6	-43 17.3	-93 17.8	7737.3	10.1	89	36972.
1	5	1967	0.0	552	-43 17.1	-92 53.3	7755.2	10.4	90	36827.
1	5	1967	0.0	738	-43 17.2	-92 28.0	7773.6	10.3	90	36549.
1	5	1967	0.0	11 2	-43 17.1	-91 39.8	7808.7	10.3	41	36532.
1	5	1967	0.0	1111	-43 15.9	-91 38.4	7810.2	10.3	90	36503.
1	5	1967	0.0	1132	-43 15.9	-91 33.5	7813.8	9.8	2	36493.
1	5	1967	0.0	1140	-43 14.6	-91 33.4	7815.1	10.3	90	36468.
1	5	1967	0.0	1158	-43 14.6	-91 29.2	7818.2	10.3	91	36385.
1	5	1967	0.0	13 0	-43 14.8	-91 14.5	7828.9	9.8	91	36259.
1	5	1967	0.0	1441	-43 15.1	-90 51.9	7845.3	5.3	92	36248.
1	5	1967	0.0	1458	-43 15.2	-90 49.9	7846.8	0.4	125	36246.
1	5	1967	0.0	1658	-43 15.6	-90 49.1	7847.5	0.5	197	36272.
1	5	1967	0.0	2214	-43 18.1	-90 50.1	7850.1	0.3	236	36272.
1	5	1967	0.0	2219	-43 18.1	-90 50.2	7850.1	4.6	92	36263.
1	5	1967	0.0	2235	-43 18.1	-90 48.5	7851.3	9.7	91	36231.
1	5	1967	0.0	23 0	-43 18.2	-90 42.9	7855.4	9.7	88	36155.
1	5	1967	0.0	2358	-43 17.9	-90 30.1	7864.7	9.7	88	36011.
2	5	1967	0.0	146	-43 17.2	-90 5.9	7882.3	10.1	88	35748.
2	5	1967	0.0	458	-43 16.0	-89 21.6	7914.6	9.9	85	35597.
2	5	1967	0.0	646	-43 14.6	-88 57.3	7932.4	10.3	89	35574.
2	5	1967	0.0	7 3	-43 14.5	-88 53.3	7935.3	10.3	92	35539.
2	5	1967	0.0	730	-43 14.7	-88 46.9	7939.9	10.3	89	35465.
2	5	1967	0.0	824	-43 14.6	-88 34.2	7949.2	4.9	92	35453.
2	5	1967	0.0	844	-43 14.7	-88 31.9	7950.9	0.5	141	35458.
2	5	1967	0.0	16 8	-43 17.8	-88 28.5	7954.9	0.8	117	35453.
2	5	1967	0.0	1756	-43 18.5	-88 26.6	7956.4	0.2	127	35453.
2	5	1967	0.0	18 0	-43 18.6	-88 26.6	7956.4	4.6	92	35444.
2	5	1967	0.0	1815	-43 18.6	-88 25.0	7957.6	10.2	91	35149.
2	5	1967	0.0	22 0	-43 19.2	-87 32.5	7995.8	10.2	89	34917.
3	5	1967	0.0	052	-43 18.6	-86 52.5	8024.9	10.6	91	34906.
3	5	1967	0.0	1 0	-43 18.6	-86 50.4	8026.4	10.6	90	34889.
3	5	1967	0.0	113	-43 18.7	-86 47.3	8028.7	10.6	87	34759.
3	5	1967	0.0	242	-43 17.7	-86 25.7	8044.4	10.6	79	34738.
3	5	1967	0.0	255	-43 17.3	-86 22.6	8046.8	10.6	70	34676.
3	5	1967	0.0	330	-43 15.2	-86 14.5	8053.0	5.2	67	34660.
3	5	1967	0.0	349	-43 14.6	-86 12.5	8054.6	0.9	29	34655.
3	5	1967	0.0	414	-43 14.2	-86 12.2	8055.0	0.6	106	34645.
3	5	1967	0.0	746	-43 14.8	-86 9.5	8057.0	0.6	250	34655.
3	5	1967	0.0	937	-43 15.1	-86 10.8	8058.0	4.1	93	34643.
3	5	1967	0.0	10 0	-43 15.2	-86 8.6	8059.6	9.5	91	34631.
3	5	1967	0.0	1010	-43 15.2	-86 6.5	8061.2	9.2	90	34380.
3	5	1967	0.0	1342	-43 15.3	-85 21.7	8093.8	9.7	90	33997.
3	5	1967	0.0	1852	-43 15.3	-84 13.1	8143.8	10.6	90	33904.
3	5	1967	0.0	20 0	-43 15.2	-83 56.5	8155.9	5.4	89	33

ELTANIN CRUISE 28

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
3	5	1967	0.0	2019	-43 15.2	-83 54.1	8157.6	0.6	82	33881.
3	5	1967	0.0	22 8	-43 15.1	-83 52.6	8158.7	0.8	103	33865.
4	5	1967	0.0	144	-43 15.7	-83 48.9	8161.5	0.4	42	33862.
4	5	1967	0.0	229	-43 15.5	-83 48.6	8161.8	5.8	87	33852.
4	5	1967	0.0	242	-43 15.4	-83 46.9	8163.0	10.3	88	33802.
4	5	1967	0.0	320	-43 15.2	-83 38.0	8169.5	10.0	88	33523.
4	5	1967	0.0	654	-43 14.0	-82 49.1	8205.2	10.1	87	33335.
4	5	1967	0.0	916	-43 12.8	-82 16.2	8229.2	9.8	88	33202.
4	5	1967	0.0	11 2	-43 12.2	-81 52.5	8246.5	9.9	92	33151.
4	5	1967	0.0	1145	-43 12.4	-81 42.8	8253.5	5.2	191	33166.
4	5	1967	0.0	12 5	-43 14.1	-81 43.2	8255.2	4.9	97	33153.
4	5	1967	0.0	1230	-43 14.4	-81 40.4	8257.3	0.3	210	33159.
4	5	1967	0.0	1430	-43 14.9	-81 40.9	8257.9	0.1	166	33160.
4	5	1967	0.0	1614	-43 15.0	-81 40.8	8258.1	0.7	138	33161.
4	5	1967	0.0	18 0	-43 16.0	-81 39.7	8259.3	0.5	128	33161.
4	5	1967	0.0	18 3	-43 16.0	-81 39.7	8259.3	5.6	93	33151.
4	5	1967	0.0	1819	-43 16.1	-81 37.6	8260.8	10.3	92	32928.
4	5	1967	0.0	2120	-43 16.9	-80 54.8	8292.0	10.8	89	32873.
4	5	1967	0.0	22 0	-43 16.8	-80 44.8	8299.2	10.9	86	32786.
4	5	1967	0.0	23 2	-43 15.9	-80 29.5	8310.4	9.9	86	32653.
5	5	1967	0.0	045	-43 14.8	-80 6.2	8327.5	5.1	85	32651.
5	5	1967	0.0	048	-43 14.7	-80 5.8	8327.7	6.0	85	32638.
5	5	1967	0.0	1 5	-43 14.6	-80 3.5	8329.4	0.8	71	32627.
5	5	1967	0.0	230	-43 14.2	-80 2.0	8330.5	0.6	172	32634.
5	5	1967	0.0	414	-43 15.2	-80 1.8	8331.6	1.2	203	32656.
5	5	1967	0.0	6 4	-43 17.3	-80 3.0	8333.8	1.3	212	32670.
5	5	1967	0.0	7 1	-43 18.4	-80 4.0	8335.1	4.2	101	32662.
5	5	1967	0.0	720	-43 18.6	-80 2.2	8336.4	8.8	93	32498.
5	5	1967	0.0	10 6	-43 20.0	-79 28.8	8360.7	8.5	94	32398.
5	5	1967	0.0	1152	-43 20.9	-79 8.3	8375.6	8.6	93	32377.
5	5	1967	0.0	1214	-43 21.1	-79 4.0	8378.8	8.1	37	32354.
5	5	1967	0.0	1230	-43 19.3	-79 2.2	8381.0	7.7	37	32341.
5	5	1967	0.0	1240	-43 18.3	-79 1.1	8382.3	3.6	36	32330.
5	5	1967	0.0	1258	-43 17.5	-79 0.3	8383.3	1.4	219	32340.
5	5	1967	0.0	1340	-43 18.2	-79 1.1	8384.3	0.5	200	32356.
5	5	1967	0.0	1710	-43 19.8	-79 1.9	8386.0	0.4	21	32348.
5	5	1967	0.0	1940	-43 19.0	-79 1.5	8386.9	4.9	78	32333.
5	5	1967	0.0	20 0	-43 18.7	-78 59.3	8388.6	10.2	80	32154.
5	5	1967	0.0	22 8	-43 15.0	-78 29.9	8410.3	9.3	78	32145.
5	5	1967	0.0	2215	-43 14.7	-78 28.4	8411.4	9.2	86	32034.
5	5	1967	0.0	2352	-43 13.8	-78 8.2	8426.2	10.0	94	32009.
6	5	1967	0.0	015	-43 14.1	-78 2.9	8430.0	5.0	99	32001.
6	5	1967	0.0	032	-43 14.3	-78 1.0	8431.4	0.8	185	32004.
6	5	1967	0.0	1 0	-43 14.7	-78 1.0	8431.8	0.8	185	32009.
6	5	1967	0.0	142	-43 15.2	-78 1.1	8432.3	1.1	205	32026.
6	5	1967	0.0	322	-43 16.8	-78 2.1	8434.1	1.2	192	32044.
6	5	1967	0.0	5 8	-43 18.8	-78 2.7	8436.2	0.9	194	32053.
6	5	1967	0.0	612	-43 19.8	-78 3.0	8437.1	4.3	93	32045.
6	5	1967	0.0	630	-43 19.8	-78 1.2	8438.4	4.6	93	32043.
6	5	1967	0.0	634	-43 19.8	-78 0.8	8438.7	9.7	87	32011.
6	5	1967	0.0	7 0	-43 19.6	-77 55.0	8443.0	9.8	87	31903.
6	5	1967	0.0	830	-43 18.7	-77 34.9	8457.6	9.7	88	31849.
6	5	1967	0.0	916	-43 18.4	-77 24.7	8465.1	9.7	85	31827.
6	5	1967	0.0	934	-43 18.2	-77 20.7	8468.0	9.7	79	31724.
6	5	1967	0.0	1052	-43 15.8	-77 3.7	8480.6	4.8	81	31720.
6	5	1967	0.0	1058	-43 15.7	-77 3.0	8481.1	5.0	82	31711.
6	5	1967	0.0	1112	-43 15.6	-77 1.4	8482.2	0.4	178	31722.
6	5	1967	0.0	1430	-43 17.0	-77 1.4	8483.7	0.6	275	31728.
6	5	1967	0.0	1618	-43 16.9	-77 2.8	8484.7	1.0	92	31718.
6	5	1967	0.0	1751	-43 17.0	-77 0.7	8486.2	5.9	86	31707.
6	5	1967	0.0	18 6	-43 16.8	-76 58.7	8487.7	4.5	79	31702.
6	5	1967	0.0	1814	-43 16.7	-76 57.9	8488.2	9.5	82	31479.
6	5	1967	0.0	2116	-43 12.9	-76 18.6	8517.1	9.7	83	31448.
6	5	1967	0.0	2141	-43 12.4	-76 13.1	8521.1	9.6	99	31432.
6	5	1967	0.0	22 0	-43 12.9	-76 9.0	8524.2	9.1	99	31416.
6	5	1967	0.0	2220	-43 13.4	-76 4.9	8527.2	4.6	98	31408.
6	5	1967	0.0	2237	-43 13.5	-76 3.2	8528.5	0.5	316	31407.
7	5	1967	0.0	048	-43 12.8	-76 4.2	8529.5	0.9	198	31421.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
7	5	1967	0.0	232	-43 14.2	-76 4.8	8531.0	0.8	241	31435.
7	5	1967	0.0	418	-43 14.9	-76 6.5	8532.4	0.7	186	31446.
7	5	1967	0.0	6 6	-43 16.2	-76 6.7	8533.7	0.3	154	31446.
7	5	1967	0.0	613	-43 16.2	-76 6.7	8533.8	10.2	91	31427.
7	5	1967	0.0	630	-43 16.3	-76 2.6	8536.7	10.1	91	31309.
7	5	1967	0.0	818	-43 16.8	-75 37.6	8554.9	9.8	90	31293.
7	5	1967	0.0	833	-43 16.8	-75 34.3	8557.4	9.8	65	31261.
7	5	1967	0.0	854	-43 15.3	-75 30.0	8560.8	4.7	64	31256.
7	5	1967	0.0	9 0	-43 15.1	-75 29.4	8561.3	0.2	267	31261.
7	5	1967	0.0	1156	-43 15.1	-75 30.2	8561.9	1.6	259	31283.
7	5	1967	0.0	1338	-43 15.7	-75 34.0	8564.7	0.5	253	31288.
7	5	1967	0.0	1446	-43 15.8	-75 34.8	8565.3	9.5	91	31257.
7	5	1967	0.0	1516	-43 15.9	-75 28.2	8570.0	9.5	91	31247.
7	5	1967	0.0	1526	-43 15.9	-75 26.1	8571.6	9.4	93	31211.
7	5	1967	0.0	16 3	-43 16.2	-75 18.2	8577.4	5.7	265	31228.
7	5	1967	0.0	1628	-43 16.4	-75 21.4	8579.7	0.8	231	31234.
7	5	1967	0.0	1712	-43 16.8	-75 22.0	8580.3	0.7	261	31261.
7	5	1967	0.0	2210	-43 17.4	-75 26.8	8583.8	1.2	244	31265.
7	5	1967	0.0	2230	-43 17.5	-75 27.3	8584.2	8.5	83	31249.
7	5	1967	0.0	2245	-43 17.3	-75 24.4	8586.3	8.4	83	31163.
8	5	1967	0.0	0 9	-43 15.9	-75 8.5	8598.0	3.1	87	31153.
8	5	1967	0.0	036	-43 15.9	-75 6.6	8599.4	1.2	244	31166.
8	5	1967	0.0	146	-43 16.5	-75 8.3	8600.8	1.3	101	31165.
8	5	1967	0.0	158	-43 16.5	-75 8.0	8601.1	6.8	92	31148.
8	5	1967	0.0	221	-43 16.6	-75 4.4	8603.7	6.4	268	31155.
8	5	1967	0.0	230	-43 16.7	-75 5.8	8604.7	6.2	273	31159.
8	5	1967	0.0	236	-43 16.6	-75 6.6	8605.3	7.7	273	31199.
8	5	1967	0.0	326	-43 16.3	-75 15.4	8611.7	7.6	272	31226.
8	5	1967	0.0	4 0	-43 16.2	-75 21.3	8616.0	7.6	272	31250.
8	5	1967	0.0	430	-43 16.0	-75 26.5	8619.8	7.6	272	31285.
8	5	1967	0.0	514	-43 15.8	-75 34.1	8625.3	8.9	269	31341.
8	5	1967	0.0	610	-43 15.9	-75 45.5	8633.6	8.3	269	31396.
8	5	1967	0.0	7 8	-43 16.1	-75 56.6	8641.7	9.4	280	31438.
8	5	1967	0.0	8 0	-43 14.6	-76 7.7	8649.9	9.6	355	31371.
8	5	1967	0.0	9 0	-43 5.0	-76 8.8	8659.5	7.9	82	31361.
8	5	1967	0.0	910	-43 4.9	-76 7.0	8660.8	8.6	91	31342.
8	5	1967	0.0	930	-43 4.9	-76 3.0	8663.7	8.5	91	31163.
8	5	1967	0.0	1242	-43 5.2	-75 25.8	8690.9	8.1	94	31148.
8	5	1967	0.0	13 0	-43 5.4	-75 22.4	8693.3	8.2	94	31069.
8	5	1967	0.0	1436	-43 6.3	-75 4.5	8706.4	8.8	103	31052.
8	5	1967	0.0	15 0	-43 7.1	-74 59.8	8710.0	9.1	102	31044.
8	5	1967	0.0	1511	-43 7.4	-74 57.6	8711.6	7.1	360	31001.
8	5	1967	0.0	16 0	-43 1.6	-74 57.6	8717.4	5.1	360	30969.
8	5	1967	0.0	1651	-42 57.3	-74 57.7	8721.7	3.1	359	30939.
8	5	1967	0.0	1812	-42 53.2	-74 57.7	8725.9	5.7	6	30907.
8	5	1967	0.0	1853	-42 49.3	-74 57.2	8729.8	5.2	6	30812.
8	5	1967	0.0	2110	-42 37.5	-74 55.4	8741.7	6.0	7	30781.
8	5	1967	0.0	2147	-42 33.8	-74 54.8	8745.4	6.0	5	30724.
8	5	1967	0.0	23 0	-42 26.4	-74 53.9	8752.7	6.0	51	30703.
8	5	1967	0.0	2322	-42 25.1	-74 51.6	8754.9	6.5	5	30696.
8	5	1967	0.0	2330	-42 24.2	-74 51.5	8755.8	6.9	4	30670.
9	5	1967	0.0	0 0	-42 20.7	-74 51.2	8759.3	7.9	3	30626.
9	5	1967	0.0	044	-42 15.0	-74 50.7	8765.0	6.3	358	30614.
9	5	1967	0.0	1 0	-42 13.3	-74 50.8	8766.7	6.3	353	30551.
9	5	1967	0.0	236	-42 3.4	-74 52.4	8776.7	5.0	354	30538.
9	5	1967	0.0	3 0	-42 1.4	-74 52.7	8778.7	5.0	354	30530.
9	5	1967	0.0	315	-42 0.1	-74 52.9	8780.0	5.4	176	30555.
9	5	1967	0.0	357	-42 3.9	-74 52.6	8783.7	2.3	357	30555.
9	5	1967	0.0	4 0	-42 3.7	-74 52.6	8783.9	4.9	354	30542.
9	5	1967	0.0	424	-42 1.8	-74 52.8	8785.8	6.0	342	30496.
9	5	1967	0.0	6 0	-41 52.7	-74 56.7	8795.4	4.7	340	30492.
9	5	1967	0.0	612	-41 51.8	-74 57.2	8796.3	5.8	357	30461.
9	5	1967	0.0	7 0	-41 47.1	-74 57.5	8801.0	6.5	356	30405.
9	5	1967	0.0	818	-41 38.7	-74 58.3	8809.4	6.3	352	30379.
9	5	1967	0.0	9 0	-41 34.3	-74 59.1	8813.9	7.2	352	30354.
9	5	1967	0.0	935	-41 30.2	-74 59.9	8818.0	7.0	319	30350.
9	5	1967	0.0	10 2	-41 27.8	-75 2.6	8821.2	7.4	318	30348.
9	5	1967	0.0	1030	-41 25.2	-75 5.7	8824.7	7.9	318	30335.

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
9	5	1967	0.0	1230	-41 13.6	-75 19.9	8840.4	8.9	317	30327.
9	5	1967	0.0	1346	-41 5.3	-75 30.0	8851.7	8.3	315	30324.
9	5	1967	0.0	1445	-40 59.5	-75 37.6	8859.9	9.1	314	30324.
9	5	1967	0.0	1532	-40 54.5	-75 44.5	8867.0	7.9	313	30326.
9	5	1967	0.0	1718	-40 45.0	-75 58.0	8881.0	8.7	315	30318.
9	5	1967	0.0	22 0	-40 16.0	-76 35.5	8921.7	9.2	317	30313.
9	5	1967	0.0	2330	-40 5.9	-76 47.9	8935.5	9.4	313	30314.
9	5	1967	0.0	2346	-40 4.2	-76 50.3	8938.0	9.5	308	30356.
10	5	1967	0.0	332	-39 42.3	-77 27.3	8973.8	8.6	309	30359.
10	5	1967	0.0	355	-39 40.2	-77 30.6	8977.1	8.6	312	30366.
10	5	1967	0.0	518	-39 32.3	-77 42.1	8989.0	9.0	313	30385.
10	5	1967	0.0	9 8	-39 8.9	-78 14.9	9023.6	9.3	313	30394.
10	5	1967	0.0	1054	-38 57.7	-78 30.3	9039.9	9.1	316	30394.
10	5	1967	0.0	11 0	-38 57.0	-78 31.1	9040.9	9.5	316	30395.
10	5	1967	0.0	1130	-38 53.6	-78 35.4	9045.6	9.1	316	30397.
10	5	1967	0.0	1244	-38 45.6	-78 45.4	9056.8	9.5	312	30411.
10	5	1967	0.0	1442	-38 33.1	-79 3.1	9075.4	8.6	315	30418.
10	5	1967	0.0	1630	-38 22.1	-79 17.2	9091.0	9.3	314	30427.
10	5	1967	0.0	1816	-38 10.8	-79 32.3	9107.3	9.3	315	30431.
10	5	1967	0.0	19 6	-38 5.4	-79 39.2	9115.0	5.5	316	30432.
10	5	1967	0.0	1930	-38 3.8	-79 41.2	9117.3	7.0	315	30432.
10	5	1967	0.0	1941	-38 2.9	-79 42.3	9118.5	9.3	315	30438.
10	5	1967	0.0	21 6	-37 53.6	-79 54.1	9131.7	9.3	315	30466.
11	5	1967	0.0	242	-37 16.8	-80 40.7	9183.8	9.1	312	30482.
11	5	1967	0.0	426	-37 6.1	-80 55.4	9199.6	9.0	312	30499.
11	5	1967	0.0	616	-36 55.1	-81 10.6	9216.1	9.0	316	30518.
11	5	1967	0.0	10 2	-36 30.8	-81 40.3	9250.0	8.9	316	30527.
11	5	1967	0.0	1146	-36 19.7	-81 53.6	9265.5	9.1	314	30557.
11	5	1967	0.0	1538	-35 55.3	-82 24.9	9300.7	8.9	319	30558.
11	5	1967	0.0	16 0	-35 52.8	-82 27.6	9304.0	9.0	319	30560.
11	5	1967	0.0	1726	-35 43.0	-82 38.1	9316.9	9.2	313	30582.
11	5	1967	0.0	1937	-35 29.4	-82 56.3	9337.0	9.0	87	30448.
11	5	1967	0.0	2156	-35 28.2	-82 30.8	9357.8	9.7	79	30443.
11	5	1967	0.0	22 0	-35 28.0	-82 30.0	9358.5	9.7	79	30326.
11	5	1967	0.0	2344	-35 24.9	-82 9.8	9375.2	9.1	89	30301.
12	5	1967	0.0	010	-35 24.8	-82 5.0	9379.2	9.1	92	30116.
12	5	1967	0.0	336	-35 25.8	-81 26.8	9410.2	9.1	93	30097.
12	5	1967	0.0	357	-35 26.0	-81 22.9	9413.5	9.1	90	30020.
12	5	1967	0.0	520	-35 26.0	-81 7.4	9426.1	9.1	87	29802.
12	5	1967	0.0	9 8	-35 24.2	-80 25.0	9460.7	9.5	86	29633.
12	5	1967	0.0	1158	-35 22.5	-79 52.3	9487.4	9.1	348	29629.
12	5	1967	0.0	12 6	-35 21.3	-79 52.6	9488.6	9.4	86	29595.
12	5	1967	0.0	1240	-35 20.9	-79 46.0	9494.0	9.4	85	29468.
12	5	1967	0.0	1448	-35 19.1	-79 21.5	9514.1	9.4	87	29366.
12	5	1967	0.0	1634	-35 18.2	-79 1.1	9530.7	9.4	88	29261.
12	5	1967	0.0	1824	-35 17.5	-78 40.0	9548.0	9.7	82	29096.
12	5	1967	0.0	21 2	-35 13.7	-78 8.9	9573.6	9.1	82	29067.
12	5	1967	0.0	2132	-35 13.1	-78 3.4	9578.2	9.1	85	28952.
12	5	1967	0.0	2335	-35 11.3	-77 40.8	9596.8	5.1	80	28939.
13	5	1967	0.0	0 0	-35 11.0	-77 38.2	9598.9	0.9	3	28936.
13	5	1967	0.0	040	-35 10.4	-77 38.2	9599.5	0.5	309	28938.
13	5	1967	0.0	244	-35 9.7	-77 39.2	9600.5	0.6	259	28945.
13	5	1967	0.0	432	-35 10.0	-77 40.4	9601.6	0.2	95	28943.
13	5	1967	0.0	622	-35 10.0	-77 40.0	9602.0	0.0	193	28944.
13	5	1967	0.0	12 5	-35 10.2	-77 40.0	9602.1	5.1	94	28934.
13	5	1967	0.0	1225	-35 10.3	-77 38.0	9603.8	9.0	94	28893.
13	5	1967	0.0	1317	-35 10.9	-77 28.5	9611.6	10.0	94	28856.
13	5	1967	0.0	1358	-35 11.3	-77 20.2	9618.4	9.4	91	28763.
13	5	1967	0.0	1544	-35 11.7	-76 59.8	9635.1	10.5	95	28688.
13	5	1967	0.0	17 6	-35 12.9	-76 42.3	9649.4	5.7	95	28680.
13	5	1967	0.0	1723	-35 13.0	-76 40.3	9651.1	0.5	108	28671.
13	5	1967	0.0	2154	-35 13.7	-76 37.6	9653.4	0.8	196	28678.
13	5	1967	0.0	2332	-35 15.0	-76 38.0	9654.7	5.0	101	28673.
13	5	1967	0.0	2346	-35 15.2	-76 36.6	9655.9	9.8	97	28566.
14	5	1967	0.0	156	-35 17.7	-76 10.8	9677.1	9.5	97	28535.
14	5	1967	0.0	236	-35 18.5	-76 3.1	9683.4	9.4	87	28478.
14	5	1967	0.0	338	-35 17.9	-75 51.1	9693.2	10.3	86	28466.
14	5	1967	0.0	350	-35 17.8	-75 48.6	9695.3	7.1	87	28453.
14	5	1967	0.0	410	-35 17.7	-75 45.7	9697.6	0.7	151	28454.
14	5	1967	0.0	526	-35 18.4	-75 45.2	9698.5	0.6	192	28466.
14	5	1967	0.0	9 6	-35 20.6	-75 45.8	9700.7	0.6	168	28467.
14	5	1967	0.0	925	-35 20.8	-75 45.7	9700.9	4.8	91	28459.
14	5	1967	0.0	943	-35 20.8	-75 44.0	9702.3	10.1	87	28394.
14	5	1967	0.0	1050	-35 20.1	-75 30.2	9713.6	10.3	81	28364.
14	5	1967	0.0	1118	-35 19.3	-75 24.3	9718.5	10.3	78	28274.
14	5	1967	0.0	1242	-35 16.4	-75 7.0	9732.9	9.9	85	28218.
14	5	1967	0.0	1340	-35 15.5	-74 55.3	9742.5	4.9	90	28211.
14	5	1967	0.0	1357	-35 15.5	-74 53.6	9743.9	0.9	180	28214.
14	5	1967	0.0	1450	-35 16.3	-74 53.6	9744.6	0.3	200	28218.
14	5	1967	0.0	1638	-35 16.8	-74 53.8	9745.2	0.3	221	28225.
14	5	1967	0.0	2015	-35 17.6	-74 54.8	9746.3	4.5	90	28220.
14	5	1967	0.0	2028	-35 17.6	-74 53.6	9747.3	8.8	88	28193.
14	5	1967	0.0	21 2	-35 17.5	-74 47.4	9752.3	9.2	84	28153.
14	5	1967	0.0	2147	-35 16.7	-74 39.1	9759.2	5.2	81	28146.
14	5	1967	0.0	22 0	-35 16.6	-74 37.7	9760.3	10.2	84	28097.
14	5	1967	0.0	2250	-35 15.7	-74 27.4	9768.7	9.9	85	27998.
15	5	1967	0.0	036	-35 14.0	-74 6.2	9786.1	9.1	91	27976.
15	5	1967	0.0	1 4	-35 14.1	-74 1.0	9790.4	6.1	261	27989.
15	5	1967	0.0	126	-35 14.4	-74 3.7	9792.6	10.8	264	27993.
15	5	1967	0.0	130	-35 14.5	-74 4.6	9793.4	10.6	266	28003.
15	5	1967	0.0	140	-35 14.6	-74 6.8	9795.1	5.5	263	28006.
15	5	1967	0.0	145	-35 14.7	-74 7.3	9795.6	1.1	231	28013.
15	5	1967	0.0	248	-35 15.4	-74 8.4	9796.8	0.4	191	28017.
15	5	1967	0.0	434	-35 16.1	-74 8.6	9797.5	0.2	245	28023.
15	5	1967	0.0	812	-35 16.5	-74 9.5	9798.3	0.3	220	28024.
15	5	1967	0.0	833	-35 16.6	-74 9.6	9798.4	7.2	90	28016.
15	5	1967	0.0	845	-35 16.6	-74 7.8	9799.9	9.8	89	27955.
15	5	1967	0.0	956	-35 16.4	-73 53.7	9811.4	9.4	87	27865.
15	5	1967	0.0	1142	-35 15.7	-73 33.4	9828.0	9.8	88	27825.
15	5	1967	0.0	1228	-35 15.5	-73 24.2	9835.5	3.4	88	27824.
15	5	1967	0.0	1231	-35 15.5	-73 24.0	9835.7	0.2	259	27826.
15	5	1967	0.0	14 2	-35 15.5	-73 24.4	9836.0	0.4	237	27836.
15	5	1967	0.0	1736	-35 16.3	-73 25.9	9837.5	0.6	223	27839.
15	5	1967	0.0	1820	-35 16.6	-73 26.3	9837.9	4.8	92	27835.
15	5	1967	0.0	1830	-35 16.7	-73 25.3	9838.8	9.6	90	27751.
15	5	1967	0.0	2010	-35 16.6	-73 5.8	9854.7	10.4	86	27689.
15	5	1967	0.0	2115	-35 15.7	-72 51.9	9866.0	5.6	85	27687.
15	5	1967	0.0	2120	-35 15.7	-72 51.4	9866.4	0.5	60	27685.
15	5	1967	0.0	2158	-35 15.5	-72 51.1	9866.7	1.2	92	27679.
15	5	1967	0.0	23 3	-35 15.6	-72 49.5	9868.0	6.2	90	27667.
15	5	1967	0.0	2326	-35 15.6	-72 46.6	9870.4	7.3	270	27669.
15	5	1967	0.0	2330	-35 15.6	-72 47.2	9870.9	8.4	270	27671.
15	5	1967	0.0	2332	-35 15.6	-72 47.5	9871.2	10.2	90	27666.
15	5	1967	0.0	2338	-35 15.6	-72 46.3	9872.2	9.2	93	27643.
16	5	1967	0.0	0 8	-35 15.8	-72 40.6	9876.8	8.8	271	27670.
16	5	1967	0.0	045	-35 15.7	-72 47.2	9882.3	8.7	267	27726.
16	5	1967	0.0	158	-35 16.2	-73 0.2	9892.8	8.1	265	27804.
16	5	1967	0.0	344	-35 17.3	-73 17.7	9907.1	8.5	264	27865.
16	5	1967	0.0	5 0	-35 18.4	-73 30.9	9918.0	8.1	264	27891.
16	5	1967	0.0	534	-35 18.9	-73 36.5	9922.6	8.1	264	27972.
16	5	1967	0.0	722	-35 20.4	-73 54.2	9937.1	8.5	265	28053.
16	5	1967	0.0	9 2	-35 21.7	-74 11.6	9951.4	8.6	266	28139.
16	5	1967	0.0	1048	-35 22.8	-74 30.2	9966.6	8.6	271	28194.
16	5	1967	0.0	12 0	-35 22.7	-74 42.9	9976.9	8.1	271	28211.
16	5	1967	0.0	1224	-35 22.7	-74 46.8	9980.1	8.6	3	28179.
16	5	1967	0.0	1312	-35 15.8	-74 46.4	9987.0	9.3	5	28124.
16	5	1967	0.0	1425	-35 4.5	-74 45.2	9998.4	9.8	84	28095.
16	5	1967	0.0	1456	-35 3.9	-74 39.1	10003.4	9.4	87	28065.
16	5	1967	0.0	1530	-35 3.6	-74 32.6	10008.8	10.5	87	27995.
16	5	1967	0.0	1644	-35 3.1	-74 16.9	10021.7	9.6	88	27778.
16	5	1967	0.0	2058	-35 1.8	-73 27.4	10062.2	9.4	88	27693.
16	5	1967	0.0	2242	-35 1.2	-73 7.6	10078.4	9.7	87	27586.
17	5	1967	0.0	048	-35 0.2	-72 42.8	10098.8	9.9	115	27583.
17	5	1967	0.0	055	-35 0.7	-72 41.5	10099.9	9.6	87	27546.
17	5	1967	0.0	139	-35 0.4	-72 32.9	10107.0	4.7	86	27535.
17	5	1967	0.0	2 7	-35 0.2	-72 30.3	10109.1	5.7	288	27538.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
17	5	1967	0.0	218	-34 59.9	-72 31.5	10110.2	10.4	288	27561.
17	5	1967	0.0	256	-34 57.8	-72 39.1	10116.7	8.5	284	27618.
17	5	1967	0.0	438	-34 54.5	-72 56.3	10131.2	9.1	289	27727.
17	5	1967	0.0	8 8	-34 43.8	-73 33.0	10163.2	8.4	290	27779.
17	5	1967	0.0	956	-34 38.8	-73 50.2	10178.2	8.6	285	27814.
17	5	1967	0.0	11 0	-34 36.3	-74 1.0	10187.4	7.0	285	27828.
17	5	1967	0.0	1130	-34 35.4	-74 5.1	10190.9	6.9	285	27833.
17	5	1967	0.0	1140	-34 35.1	-74 6.5	10192.1	7.2	284	27899.
17	5	1967	0.0	1355	-34 31.3	-74 25.6	10208.2	8.4	64	27887.
17	5	1967	0.0	14 8	-34 30.5	-74 23.5	10210.1	8.8	61	27882.
17	5	1967	0.0	1413	-34 30.2	-74 22.8	10210.8	5.7	64	27856.
17	5	1967	0.0	1455	-34 28.4	-74 18.4	10214.8	8.7	61	27803.
17	5	1967	0.0	1552	-34 24.4	-74 9.7	10223.0	8.4	56	27686.
17	5	1967	0.0	18 0	-34 14.3	-73 51.6	10241.0	8.9	56	27567.
17	5	1967	0.0	20 6	-34 3.8	-73 33.0	10259.7	9.2	56	27466.
17	5	1967	0.0	2150	-33 54.8	-73 17.0	10275.7	8.8	56	27457.
17	5	1967	0.0	22 0	-33 53.9	-73 15.5	10277.3	9.0	56	27369.
17	5	1967	0.0	2334	-33 46.0	-73 1.4	10291.4	7.7	56	27252.
18	5	1967	0.0	2 4	-33 35.3	-72 42.3	10310.6	8.9	57	27096.
18	5	1967	0.0	5 0	-33 21.1	-72 15.8	10336.8	8.2	58	27072.
18	5	1967	0.0	530	-33 18.9	-72 11.6	10340.9	8.9	57	27064.
18	5	1967	0.0	540	-33 18.1	-72 10.1	10342.4	8.7	52	26934.
18	5	1967	0.0	815	-33 4.5	-71 49.0	10364.8	3.0	47	26922.
18	5	1967	0.0	9 0	-33 2.9	-71 47.0	10367.0	3.7	58	26874.
18	5	1967	0.0	1115	-32 58.5	-71 38.5	10375.4	2.6	90	26868.
18	5	1967	0.0	1144	-32 58.5	-71 37.0	10376.7			26868.

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
2	6	1967	0.0	312	-33 1.3	-71 33.2	0.0	9.1	311	27451.
2	6	1967	0.0	345	-32 58.0	-71 37.7	5.0	9.1	311	27471.
2	6	1967	0.0	521	-32 48.5	-71 50.8	19.5	9.2	311	27490.
2	6	1967	0.0	655	-32 39.1	-72 3.8	33.9	6.2	307	27501.
2	6	1967	0.0	754	-32 35.4	-72 9.5	40.0	9.1	311	27522.
2	6	1967	0.0	930	-32 25.9	-72 22.6	54.6	8.1	310	27523.
2	6	1967	0.0	936	-32 25.4	-72 23.3	55.4	7.0	315	27526.
2	6	1967	0.0	10 0	-32 23.4	-72 25.7	58.2	6.9	322	27529.
2	6	1967	0.0	11 0	-32 17.9	-72 30.7	65.1	7.3	322	27530.
2	6	1967	0.0	1130	-32 15.1	-72 33.4	68.8	7.9	322	27534.
2	6	1967	0.0	1258	-32 5.9	-72 41.8	80.4	9.1	320	27545.
2	6	1967	0.0	1450	-31 52.9	-72 54.7	97.4	9.6	327	27546.
2	6	1967	0.0	15 0	-31 51.5	-72 55.8	99.0	9.5	323	27558.
2	6	1967	0.0	18 2	-31 28.5	-73 16.3	127.9	7.6	327	27559.
2	6	1967	0.0	19 0	-31 22.3	-73 20.9	135.3	7.0	324	27561.
2	6	1967	0.0	1942	-31 18.4	-73 24.3	140.1	6.6	322	27563.
2	6	1967	0.0	2015	-31 15.5	-73 27.0	143.8	10.2	321	27571.
2	6	1967	0.0	2128	-31 5.9	-73 36.0	156.1	9.9	317	27575.
2	6	1967	0.0	2150	-31 3.2	-73 38.9	159.8	8.5	39	27546.
2	6	1967	0.0	2230	-30 58.8	-73 34.6	165.5	8.5	39	27459.
3	6	1967	0.0	030	-30 45.6	-73 22.0	182.6	8.0	39	27373.
3	6	1967	0.0	240	-30 32.2	-73 9.1	200.0	8.4	45	27307.
3	6	1967	0.0	415	-30 22.8	-72 58.2	213.3	8.4	47	27255.
3	6	1967	0.0	530	-30 15.6	-72 49.4	223.8	7.9	45	27198.
3	6	1967	0.0	658	-30 7.5	-72 39.9	235.3	7.0	35	27145.
3	6	1967	0.0	840	-29 57.7	-72 31.9	247.3	8.2	42	27077.
3	6	1967	0.0	1028	-29 46.8	-72 20.5	262.0	8.3	42	27012.
3	6	1967	0.0	1210	-29 36.3	-72 9.5	276.2	8.1	42	26945.
3	6	1967	0.0	14 2	-29 25.1	-71 57.8	291.3	8.6	40	26935.
3	6	1967	0.0	1418	-29 23.4	-71 56.1	293.6	8.6	27	26785.
3	6	1967	0.0	1910	-28 46.2	-71 34.5	335.3	9.5	27	26740.
3	6	1967	0.0	2032	-28 34.6	-71 27.8	348.3	9.9	21	26688.
3	6	1967	0.0	2218	-28 18.2	-71 20.8	365.8	9.1	26	26679.
3	6	1967	0.0	2236	-28 15.8	-71 19.4	368.5	9.4	89	26664.
3	6	1967	0.0	23 0	-28 15.7	-71 15.1	372.3	6.3	89	26658.
3	6	1967	0.0	2315	-28 15.7	-71 13.3	373.9	0.3	91	26656.
4	6	1967	0.0	1 0	-28 15.7	-71 12.8	374.3	2.8	216	26661.
4	6	1967	0.0	130	-28 16.9	-71 13.8	375.7	9.7	280	26684.
4	6	1967	0.0	2 8	-28 15.8	-71 20.7	381.9	0.3	91	26681.
4	6	1967	0.0	420	-28 15.8	-71 20.0	382.4	9.7	270	26749.
4	6	1967	0.0	6 5	-28 15.8	-71 39.4	399.5	0.3	91	26748.
4	6	1967	0.0	750	-28 15.8	-71 38.9	399.9	0.4	36	26745.
4	6	1967	0.0	932	-28 15.2	-71 38.4	400.7	0.4	274	26751.
4	6	1967	0.0	13 6	-28 15.1	-71 40.2	402.3	0.6	336	26751.
4	6	1967	0.0	1342	-28 14.8	-71 40.4	402.6	10.3	273	26800.
4	6	1967	0.0	1454	-28 14.1	-71 54.4	415.0	10.0	263	26846.
4	6	1967	0.0	16 0	-28 15.5	-72 6.8	426.0	10.1	269	26857.
4	6	1967	0.0	1615	-28 15.5	-72 9.7	428.5	9.8	91	26839.
4	6	1967	0.0	1642	-28 15.6	-72 4.7	432.9	0.2	204	26840.
4	6	1967	0.0	1748	-28 15.8	-72 4.8	433.1	0.6	185	26842.
4	6	1967	0.0	1938	-28 16.9	-72 4.9	434.2	0.4	156	26842.
4	6	1967	0.0	2345	-28 18.2	-72 4.2	435.7	5.9	271	26853.
5	6	1967	0.0	014	-28 18.2	-72 7.4	438.5	9.8	272	26950.
5	6	1967	0.0	240	-28 17.3	-72 34.6	462.4	10.2	273	26964.
5	6	1967	0.0	3 0	-28 17.1	-72 38.5	465.9	10.3	277	27002.
5	6	1967	0.0	358	-28 15.9	-72 49.6	475.7	10.4	278	27011.
5	6	1967	0.0	412	-28 15.6	-72 52.3	478.2	6.3	278	27020.
5	6	1967	0.0	432	-28 15.3	-72 54.7	480.3	0.3	280	27021.
5	6	1967	0.0	538	-28 15.2	-72 55.1	480.6	0.2	30	27018.
5	6	1967	0.0	838	-28 14.6	-72 54.7	481.3	0.3	16	27017.
5	6	1967	0.0	1026	-28 14.0	-72 54.5	481.9	1.1	147	27016.
5	6	1967	0.0	1050	-28 14.4	-72 54.2	482.4	5.4	259	27024.
5	6	1967	0.0	1110	-28 14.7	-72 56.3	484.2	9.4	263	27071.
5	6	1967	0.0	1218	-28 16.0	-73 8.3	494.9	10.1	271	27192.
5	6	1967	0.0	15 9	-28 15.7	-73 41.0	523.7	6.5	271	27194.
5	6	1967	0.0	1514	-28 15.7	-73 41.6	524.2	5.9	270	27205.
5	6	1967	0.0	1540	-28 15.7	-73 44.5	526.8	0.5	77	27193.
5	6	1967	0.0	2028	-28 15.1	-73 41.6	529.4	0.3	12	27191.
5	6	1967	0.0	23 0	-28 14.4	-73 41.4	530.1	6.1	273	27196.
5	6	1967	0.0	2312	-28 14.4	-73 42.8	531.3	9.9	272	27387.
6	6	1967	0.0	344	-28 13.1	-74 33.9	576.4	5.9	273	27395.
6	6	1967	0.0	4 4	-28 13.0	-74 36.2	578.4	0.3	12	27395.
6	6	1967	0.0	452	-28 12.8	-74 36.1	578.6	0.4	90	27392.
6	6	1967	0.0	640	-28 12.8	-74 35.3	579.3	0.6	80	27384.
6	6	1967	0.0	930	-28 12.5	-74 33.3	581.1	0.3	171	27384.
6	6	1967	0.0	10 8	-28 12.7	-74 33.3	581.3	6.0	265	27396.
6	6	1967	0.0	1035	-28 12.9	-74 36.3	584.0	10.0	266	27511.
6	6	1967	0.0	1310	-28 14.6	-75 5.5	609.8	10.2	269	27564.
6	6	1967	0.0	1420	-28 14.8	-75 19.0	621.6	6.2	270	27574.
6	6	1967	0.0	1443	-28 14.8	-75 21.7	624.0	0.3	310	27574.
6	6	1967	0.0	1454	-28 14.8	-75 21.7	624.0	0.3	60	27571.
6	6	1967	0.0	1756	-28 14.4	-75 20.9	624.8	0.1	90	27570.
6	6	1967	0.0	1940	-28 14.4	-75 20.8	624.9	0.2	203	27572.
6	6	1967	0.0	2122	-28 14.8	-75 21.0	625.4	7.0	268	27581.
6	6	1967	0.0	2139	-28 14.8	-75 23.3	627.4	10.1	269	27733.
7	6	1967	0.0	1 0	-28 15.6	-76 1.7	661.2	10.7	268	27821.
7	6	1967	0.0	250	-28 16.2	-76 23.8	680.7	10.1	266	27964.
7	6	1967	0.0	552	-28 18.1	-76 58.6	711.4	9.6	268	28007.
7	6	1967	0.0	650	-28 18.3	-77 9.2	720.7	5.5	267	28016.
7	6	1967	0.0	710	-28 18.4	-77 11.3	722.6	0.5	122	28014.
7	6	1967	0.0	836	-28 18.8	-77 10.6	723.2	1.3	55	28003.
7	6	1967	0.0	1022	-28 17.5	-77 8.5	725.5	1.3	56	27990.
7	6	1967	0.0	1218	-28 16.1	-77 6.1	728.0	1.1	80	27977.
7	6	1967	0.0	1448	-28 15.6	-77 3.1	730.7	6.1	272	27985.
7	6	1967	0.0	15 5	-28 15.6	-77 5.0	732.4	8.9	271	27999.
7	6	1967	0.0	1526	-28 15.5	-77 8.6	735.6	9.8	271	28076.
7	6	1967	0.0	1710	-28 15.1	-77 27.9	752.6	9.6	269	28222.
7	6	1967	0.0	2026	-28 15.7	-78 3.6	784.0	10.2	269	28306.
7	6	1967	0.0	2212	-28 16.1	-78 24.1	802.1	10.0	270	28461.
8	6	1967	0.0	130	-28 16.0	-79 1.8	835.3	6.1	270	28472.
8	6	1967	0.0	154	-28 16.0	-79 4.6	837.7	6.2	340	28472.
8	6	1967	0.0	2 6	-28 14.8	-79 5.0	838.9	0.1	308	28472.
8	6	1967	0.0	5 2	-28 14.7	-79 5.2	839.1	0.8	98	28466.
8	6	1967	0.0	650	-28 14.9	-79 3.6	840.5	0.6	197	28467.
8	6	1967	0.0	733	-28 15.3	-79 3.7	840.9	6.2	265	28475.
8	6	1967	0.0	749	-28 15.4	-79 5.6	842.6	10.2	267	28556.
8	6	1967	0.0	928	-28 16.3	-79 24.6	859.4	10.4	271	28664.
8	6	1967	0.0	1140	-28 15.9	-79 50.7	882.3	9.9	222	28672.
8	6	1967	0.0	1150	-28 17.1	-79 51.9	883.9	10.8	338	28671.
8	6	1967	0.0	1155	-28 16.3	-79 52.3	884.9	10.4	271	28888.
8	6	1967	0.0	1620	-28 15.5	-80 44.5	930.9	10.4	270	28947.
8	6	1967	0.0	1731	-28 15.6	-80 58.5	943.2	6.5	270	28957.
8	6	1967	0.0	1751	-28 15.6	-81 1.0	945.3	0.4	262	28958.
8	6	1967	0.0	1810	-28 15.6	-81 1.1	945.5	0.4	104	28952.
8	6	1967	0.0	2118	-28 15.9	-80 59.7	946.7	0.1	60	28949.
9	6	1967	0.0	115	-28 15.6	-80 59.1	947.3	5.9	271	28956.
9	6	1967	0.0	130	-28 15.6	-81 0.8	948.8	9.9	270	29089.
9	6	1967	0.0	420	-28 15.4	-81 32.5	976.7	10.8	270	29176.
9	6	1967	0.0	6 0	-28 15.5	-81 53.0	994.7	10.7	271	29308.
9	6	1967	0.0	834	-28 15.2	-82 24.2	1022.2	10.5	269	29398.
9	6	1967	0.0	1020	-28 15.4	-82 45.3	1040.8	9.7	270	29420.
9	6	1967	0.0	1048	-28 15.4	-82 50.5	1045.4	5.7	270	29431.
9	6	1967	0.0	1112	-28 15.4	-82 53.1	1047.6	0.3	83	29424.
9	6	1967	0.0	1534	-28 15.2	-82 51.6	1048.9	1.3	90	29413.
9	6	1967	0.0	1722	-28 15.2	-82 49.0	1051.2	0.3	159	29414.
9	6	1967	0.0	2026	-28 16.1	-82 48.6	1052.2	0.6	114	29411.
9	6	1967	0.0	2210	-28 16.5	-82 47.6	1053.2	0.3	321	29412.
10	6	1967	0.0	3 8	-28 15.5	-82 48.5	1054.4	10.8	291	29423.
10	6	1967	0.0	326	-28 14.4	-82 51.9	1057.6	10.4	289	29432.
10	6	1967	0.0	340	-28 13.6	-82 54.5	1060.1	10.2	259	29438.
10	6	1967	0.0	347	-28 13.8	-82 55.9	1061.3	0.2	169	29439.
10	6	1967	0.0	512	-28 14.1	-82 55.8	1061.5	0.9	78	29434.
10	6	1967	0.0	612	-28 13.9	-82 54.8	1062.5	5.1	272	29440.
10	6	1967	0.0	627	-28 13.9	-82 56.2	1063.7	9.6	271	29446.
10	6	1967	0.0	635	-28 13.8	-82 57.7	1065.0	5.2	237	29454.
10	6	1967	0.0	652	-28 14.6	-82 59.0	1066.5	9.1	271	29461.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
10	6	1967	0.0	7 2	-28 14.6	-83 0.8	1068.0	10.4	270	29493.
10	6	1967	0.0	740	-28 14.6	-83 8.3	1074.6	10.3	270	29581.
10	6	1967	0.0	926	-28 14.6	-83 29.0	1092.9	10.8	271	29674.
10	6	1967	0.0	1114	-28 14.2	-83 51.1	1112.3	10.4	269	29909.
10	6	1967	0.0	1550	-28 15.3	-84 45.3	1160.1	6.4	268	29917.
10	6	1967	0.0	16 5	-28 15.4	-84 47.1	1161.7	0.5	238	29918.
10	6	1967	0.0	1632	-28 15.5	-84 47.3	1161.9	0.6	45	29913.
10	6	1967	0.0	1818	-28 14.8	-84 46.5	1162.9	0.5	90	29905.
10	6	1967	0.0	2118	-28 14.8	-84 44.8	1164.4	9.5	270	29990.
10	6	1967	0.0	23 8	-28 14.8	-85 4.7	1181.9	10.7	268	30023.
10	6	1967	0.0	2345	-28 15.0	-85 12.2	1188.5	6.2	267	30028.
10	6	1967	0.0	2356	-28 15.0	-85 13.4	1189.6	10.7	268	30053.
11	6	1967	0.0	024	-28 15.2	-85 19.1	1194.6	6.6	267	30070.
11	6	1967	0.0	054	-28 15.3	-85 22.9	1197.9	10.6	268	30257.
11	6	1967	0.0	428	-28 16.4	-86 5.9	1235.8	9.9	272	30337.
11	6	1967	0.0	610	-28 15.9	-86 25.1	1252.7	9.4	271	30382.
11	6	1967	0.0	710	-28 15.7	-86 35.8	1262.2	6.5	272	30391.
11	6	1967	0.0	728	-28 15.6	-86 38.0	1264.1	0.6	67	30381.
11	6	1967	0.0	1018	-28 14.9	-86 36.2	1265.8	0.6	51	30372.
11	6	1967	0.0	1257	-28 13.9	-86 34.8	1267.5	5.5	274	30380.
11	6	1967	0.0	1317	-28 13.7	-86 36.9	1269.3	10.0	272	30493.
11	6	1967	0.0	1541	-28 12.8	-87 4.2	1293.4	6.3	274	30495.
11	6	1967	0.0	1544	-28 12.8	-87 4.5	1293.7	7.0	267	30498.
11	6	1967	0.0	1550	-28 12.8	-87 5.3	1294.4	10.8	268	30585.
11	6	1967	0.0	1728	-28 13.4	-87 25.3	1312.0	10.7	270	30735.
11	6	1967	0.0	2022	-28 13.5	-88 0.6	1343.1	10.7	268	30827.
11	6	1967	0.0	22 6	-28 14.2	-88 21.6	1361.6	9.9	270	30870.
11	6	1967	0.0	23 0	-28 14.2	-88 31.8	1370.6	6.2	237	30876.
11	6	1967	0.0	2310	-28 14.8	-88 32.8	1371.6	5.5	269	30881.
11	6	1967	0.0	2320	-28 14.8	-88 33.8	1372.5	0.6	95	30867.
12	6	1967	0.0	424	-28 15.1	-88 30.3	1375.6	3.6	74	30861.
12	6	1967	0.0	444	-28 14.8	-88 29.1	1376.8	9.9	270	30893.
12	6	1967	0.0	524	-28 14.8	-88 36.6	1383.4	11.3	269	30913.
12	6	1967	0.0	546	-28 14.9	-88 41.3	1387.6	6.8	269	30921.
12	6	1967	0.0	6 0	-28 14.9	-88 43.1	1389.2	10.8	269	31010.
12	6	1967	0.0	742	-28 15.2	-89 4.0	1407.5	10.9	270	31097.
12	6	1967	0.0	922	-28 15.3	-89 24.6	1425.7	10.1	271	31125.
12	6	1967	0.0	956	-28 15.2	-89 31.1	1431.4	6.1	271	31132.
12	6	1967	0.0	1012	-28 15.2	-89 32.9	1433.0	10.1	271	31180.
12	6	1967	0.0	1112	-28 15.1	-89 44.4	1443.1	10.0	272	31219.
12	6	1967	0.0	12 2	-28 14.8	-89 53.9	1451.5	10.0	123	31217.
12	6	1967	0.0	12 7	-28 15.2	-89 53.2	1452.3	10.6	272	31339.
12	6	1967	0.0	1435	-28 14.4	-90 22.9	1478.5	5.9	273	31350.
12	6	1967	0.0	15 0	-28 14.2	-90 25.7	1481.0	0.4	1	31345.
12	6	1967	0.0	1828	-28 13.0	-90 25.7	1482.2	0.7	129	31344.
12	6	1967	0.0	1950	-28 13.6	-90 24.8	1483.2	5.6	266	31356.
12	6	1967	0.0	2015	-28 13.8	-90 27.5	1485.6	10.0	267	31402.
12	6	1967	0.0	2112	-28 14.2	-90 38.2	1495.0	11.0	269	31500.
12	6	1967	0.0	23 2	-28 14.7	-91 1.2	1515.2	10.5	270	31776.
13	6	1967	0.0	438	-28 14.6	-92 7.8	1573.9	10.7	269	31808.
13	6	1967	0.0	516	-28 14.7	-92 15.5	1580.6	6.2	269	31817.
13	6	1967	0.0	534	-28 14.7	-92 17.6	1582.5	0.2	235	31818.
13	6	1967	0.0	622	-28 14.8	-92 17.7	1582.6	0.4	283	31821.
13	6	1967	0.0	828	-28 14.6	-92 18.7	1583.6	0.4	309	31822.
13	6	1967	0.0	1014	-28 14.1	-92 19.4	1584.3	0.3	270	31828.
13	6	1967	0.0	1445	-28 14.1	-92 20.9	1585.7	3.1	25	31823.
13	6	1967	0.0	15 0	-28 13.4	-92 20.5	1586.4	6.1	270	31838.
13	6	1967	0.0	1531	-28 13.4	-92 24.1	1589.6	10.3	270	32151.
13	6	1967	0.0	22 4	-28 13.4	-93 40.6	1657.0	10.8	269	32283.
14	6	1967	0.0	041	-28 13.9	-94 12.6	1685.2	6.7	269	32293.
14	6	1967	0.0	1 0	-28 13.9	-94 15.1	1687.4	0.8	257	32311.
14	6	1967	0.0	510	-28 14.6	-94 18.7	1690.7	2.3	54	32306.
14	6	1967	0.0	534	-28 14.1	-94 17.9	1691.6	3.7	76	32303.
14	6	1967	0.0	542	-28 14.0	-94 17.4	1692.1	9.0	266	32376.
14	6	1967	0.0	722	-28 15.0	-94 34.4	1707.1	10.0	271	32465.
14	6	1967	0.0	922	-28 14.5	-94 57.1	1727.1	9.7	273	32540.
14	6	1967	0.0	11 8	-28 13.7	-95 16.6	1744.3	9.7	271	32704.
14	6	1967	0.0	1457	-28 13.0	-95 58.7	1781.4	5.6	272	32712.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
14	6	1967	0.0	1515	-28 13.0	-96 0.6	1783.1	0.3	57	32705.
14	6	1967	0.0	1838	-28 12.4	-95 59.6	1784.2	0.4	68	32699.
14	6	1967	0.0	21 0	-28 12.0	-95 58.5	1785.2	5.6	272	32703.
14	6	1967	0.0	2110	-28 12.0	-95 59.6	1786.1	5.8	266	32710.
14	6	1967	0.0	2125	-28 12.1	-96 1.3	1787.6	9.8	268	32780.
14	6	1967	0.0	2256	-28 12.7	-96 18.1	1802.5	9.6	268	33037.
15	6	1967	0.0	448	-28 14.2	-97 21.8	1858.6	9.5	269	33112.
15	6	1967	0.0	634	-28 14.4	-97 40.8	1875.3	10.0	270	33161.
15	6	1967	0.0	740	-28 14.4	-97 53.3	1886.4	5.7	270	33168.
15	6	1967	0.0	757	-28 14.4	-97 55.2	1888.0	0.0	270	33168.
15	6	1967	0.0	828	-28 14.4	-97 55.2	1888.0	0.8	41	33159.
15	6	1967	0.0	1012	-28 13.4	-97 54.2	1889.4	0.2	346	33158.
15	6	1967	0.0	1216	-28 13.1	-97 54.3	1889.7	3.0	47	33152.
15	6	1967	0.0	1235	-28 12.4	-97 53.5	1890.6	6.1	272	33159.
15	6	1967	0.0	1252	-28 12.4	-97 55.5	1892.3	10.0	271	33450.
15	6	1967	0.0	1938	-28 11.3	-99 12.6	1960.3	10.0	273	33476.
15	6	1967	0.0	2018	-28 10.9	-99 20.1	1967.0	0.0	90	33476.
15	6	1967	0.0	2018	-28 10.9	-99 20.1	1967.0	10.0	267	33607.
15	6	1967	0.0	2310	-28 12.3	-99 52.6	1995.6	5.1	264	33615.
15	6	1967	0.0	2329	-28 12.5	-99 54.4	1997.2	0.5	179	33616.
15	6	1967	0.0	2354	-28 12.7	-99 54.4	1997.4	0.5	321	33614.
16	6	1967	0.0	330	-28 11.4	-99 55.6	1999.1	3.1	52	33609.
16	6	1967	0.0	344	-28 11.0	-99 55.0	1999.8	6.2	273	33616.
16	6	1967	0.0	4 0	-28 10.9	-99 56.9	2001.5	6.0	266	33630.
16	6	1967	0.0	430	-28 11.1	-100 0.3	2004.5	10.1	268	33767.
16	6	1967	0.0	732	-28 12.3	-100 34.9	2035.0	10.1	268	33846.
16	6	1967	0.0	918	-28 13.0	-100 55.1	2052.8	10.1	269	33924.
16	6	1967	0.0	11 4	-28 13.4	-101 15.4	2070.7	9.9	270	34018.
16	6	1967	0.0	1319	-28 13.3	-101 40.7	2093.0	5.9	270	34026.
16	6	1967	0.0	1340	-28 13.3	-101 43.1	2095.1	0.1	66	34025.
16	6	1967	0.0	17 4	-28 13.2	-101 42.8	2095.4	0.3	161	34026.
16	6	1967	0.0	1745	-28 13.4	-101 42.7	2095.6	2.2	251	34030.
16	6	1967	0.0	18 4	-28 13.6	-101 43.5	2096.3	5.8	267	34035.
16	6	1967	0.0	1816	-28 13.7	-101 44.8	2097.5	9.9	268	34062.
16	6	1967	0.0	1854	-28 13.9	-101 51.9	2103.7	10.7	267	34169.
16	6	1967	0.0	21 8	-28 15.1	-102 19.0	2127.6	9.6	267	34245.
16	6	1967	0.0	2254	-28 15.9	-102 38.3	2144.7	10.1	271	34444.
17	6	1967	0.0	346	-28 15.1	-103 34.0	2193.7	6.2	271	34451.
17	6	1967	0.0	4 5	-28 15.1	-103 36.1	2195.6	0.2	335	34448.
17	6	1967	0.0	826	-28 14.4	-103 36.5	2196.4	0.3	211	34449.
17	6	1967	0.0	9 0	-28 14.5	-103 36.6	2196.5	5.9	268	34458.
17	6	1967	0.0	920	-28 14.6	-103 38.8	2198.5	10.4	269	34473.
17	6	1967	0.0	941	-28 14.7	-103 42.9	2202.1	6.1	268	34485.
17	6	1967	0.0	10 8	-28 14.8	-103 46.1	2204.9	10.1	269	34564.
17	6	1967	0.0	1158	-28 15.2	-104 7.1	2223.4	11.0	270	34838.
17	6	1967	0.0	18 2	-28 15.5	-105 23.2	2290.4	9.4	272	34857.
17	6	1967	0.0	1834	-28 15.3	-105 28.9	2295.4	5.8	274	34866.
17	6	1967	0.0	19 0	-28 15.1	-105 31.7	2298.0	0.7	58	34852.
17	6	1967	0.0	22 0	-28 14.0	-105 29.7	2300.1	0.3	304	34852.
17	6	1967	0.0	2352	-28 13.7	-105 30.2	2300.6	0.1	240	34853.
18	6	1967	0.0	1 0	-28 13.8	-105 30.4	2300.8	6.1	269	34860.
18	6	1967	0.0	116	-28 13.8	-105 32.2	2302.4	10.6	270	34980.
18	6	1967	0.0	4 4	-28 14.0	-106 5.9	2332.2	6.1	269	34996.
18	6	1967	0.0	443	-28 14.0	-106 10.5	2336.1	9.1	270	35007.
18	6	1967	0.0	5 0	-28 14.0	-106 13.4	2338.8	6.1	269	35010.
18	6	1967	0.0	5 8	-28 14.1	-106 14.4	2339.6	10.1	270	35040.
18	6	1967	0.0	552	-28 14.1	-106 22.7	2346.9	10.1	268	35118.
18	6	1967	0.0	742	-28 14.8	-106 43.7	2365.4	10.6	270	35168.
18	6	1967	0.0	852	-28 14.9	-106 57.7	2377.8	7.1	269	35180.
18	6	1967	0.0	916	-28 14.9	-107 1.0	2380.7	7.0	271	35199.
18	6	1967	0.0	10 0	-28 14.8	-107 6.8	2385.8	10.5	271	35242.
18	6	1967	0.0	11 2	-28 14.7	-107 19.1	2396.6	10.7	270	35251.
18	6	1967	0.0	1115	-28 14.7	-107 21.7	2398.9	7.3	270	35261.
18	6	1967	0.0	1136	-28 14.7	-107 24.6	2401.5	0.7	266	35271.
18	6	1967	0.0	1510	-28 14.9	-107 27.3	2403.8	6.6	270	35278.
18	6	1967	0.0	1524	-28 14.9	-107 29.0	2405.4	7.6	270	35333.
18	6	1967	0.0	1714	-28 15.0	-107 44.9	2419.4	7.7	273	35381.
18	6	1967	0.0	1858	-28 14.3	-108 0.0	2432.7	7.8	271	35497.

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DAY	MON	YEAR	TZ	TIME	LATITUOE	LONGITUOE	OISTANCE	SPEED	COURSE	REGIONAL MAG
18	6	1967	0.0	2252	-28 13.7	-108 34.5	2463.1	7.8	268	35632.
19	6	1967	0.0	3 5	-28 14.6	-109 12.0	2496.1	7.0	268	35644.
19	6	1967	0.0	330	-28 14.7	-109 15.4	2499.1	0.9	255	35652.
19	6	1967	0.0	5 6	-28 15.1	-109 16.9	2500.5	0.4	204	35657.
19	6	1967	0.0	652	-28 15.7	-109 17.2	2501.1	1.0	253	35659.
19	6	1967	0.0	715	-28 15.8	-109 17.6	2501.5	1.8	14	35655.
19	6	1967	0.0	735	-28 15.3	-109 17.5	2502.1	7.5	268	35732.
19	6	1967	0.0	10 4	-28 16.0	-109 38.5	2520.6	10.1	268	35735.
19	6	1967	0.0	10 8	-28 16.0	-109 39.3	2521.4	8.9	268	35746.
19	6	1967	0.0	1027	-28 16.1	-109 42.5	2524.2	10.2	268	35807.
19	6	1967	0.0	1154	-28 16.5	-109 59.3	2539.0	10.6	269	35915.
19	6	1967	0.0	1430	-28 16.8	-110 30.5	2566.5	6.2	269	35921.
19	6	1967	0.0	1445	-28 16.9	-110 32.3	2568.0	10.6	269	36027.
19	6	1967	0.0	1717	-28 17.2	-111 2.6	2594.7	6.2	269	36049.
19	6	1967	0.0	1812	-28 17.3	-111 9.0	2600.4	6.5	277	36053.
19	6	1967	0.0	1825	-28 17.1	-111 10.6	2601.8	1.0	329	36047.
19	6	1967	0.0	20 0	-28 15.8	-111 11.5	2603.3	0.6	285	36049.
19	6	1967	0.0	22 0	-28 15.5	-111 12.8	2604.5	0.7	86	36048.
19	6	1967	0.0	2225	-28 15.5	-111 12.5	2604.8	6.3	271	36067.
19	6	1967	0.0	2314	-28 15.4	-111 18.2	2609.9	9.3	270	36086.
19	6	1967	0.0	2346	-28 15.4	-111 23.9	2614.9	10.0	269	36138.
20	6	1967	0.0	1 3	-28 15.7	-111 38.5	2627.8	7.0	268	36150.
20	6	1967	0.0	129	-28 15.8	-111 41.9	2630.8	10.0	269	36265.
20	6	1967	0.0	422	-28 16.5	-112 14.7	2659.7	10.2	270	36327.
20	6	1967	0.0	555	-28 16.6	-112 32.7	2675.5	7.5	270	36331.
20	6	1967	0.0	6 5	-28 16.6	-112 34.1	2676.7	10.2	270	36401.
20	6	1967	0.0	752	-28 16.7	-112 54.7	2694.9	10.2	269	36408.
20	6	1967	0.0	8 2	-28 16.7	-112 56.7	2696.6	7.3	269	36416.
20	6	1967	0.0	818	-28 16.8	-112 58.9	2698.6	0.2	232	36417.
20	6	1967	0.0	914	-28 16.9	-112 59.1	2698.8	0.8	237	36428.
20	6	1967	0.0	1058	-28 17.7	-113 0.5	2700.3	0.2	351	36427.
20	6	1967	0.0	1151	-28 17.5	-113 0.5	2700.5	6.0	272	36434.
20	6	1967	0.0	1211	-28 17.5	-113 2.8	2702.5	10.4	271	36453.
20	6	1967	0.0	1241	-28 17.4	-113 8.7	2707.7	6.0	272	36458.
20	6	1967	0.0	1254	-28 17.3	-113 10.2	2709.0	10.3	271	36627.
20	6	1967	0.0	1724	-28 16.4	-114 3.0	2755.5	10.2	269	36774.
20	6	1967	0.0	21 6	-28 16.9	-114 45.9	2793.3	10.0	266	36808.
20	6	1967	0.0	2155	-28 17.4	-114 55.2	2801.4	7.7	265	36810.
20	6	1967	0.0	2159	-28 17.4	-114 55.7	2801.9	6.3	3	36797.
20	6	1967	0.0	2215	-28 15.7	-114 55.6	2803.6	0.7	150	36799.
20	6	1967	0.0	2244	-28 16.0	-114 55.4	2804.0	0.4	265	36804.
21	6	1967	0.0	130	-28 16.1	-114 56.7	2805.2	3.4	278	36807.
21	6	1967	0.0	148	-28 16.0	-114 57.9	2806.2	6.4	270	36815.
21	6	1967	0.0	2 8	-28 16.0	-115 0.3	2808.3	10.4	270	36940.
21	6	1967	0.0	518	-28 16.1	-115 37.8	2841.3	9.8	270	37005.
21	6	1967	0.0	7 2	-28 16.2	-115 57.1	2858.3	10.0	271	37118.
21	6	1967	0.0	1010	-28 15.7	-116 32.7	2889.7	9.9	272	37156.
21	6	1967	0.0	1115	-28 15.3	-116 44.9	2900.5	5.7	274	37162.
21	6	1967	0.0	1135	-28 15.2	-116 47.0	2902.3	0.4	15	37161.
21	6	1967	0.0	1152	-28 15.1	-116 47.0	2902.4	0.2	270	37163.
21	6	1967	0.0	1518	-28 15.1	-116 47.7	2903.1	6.2	270	37169.
21	6	1967	0.0	1534	-28 15.1	-116 49.6	2904.7	10.2	270	37276.
21	6	1967	0.0	1822	-28 15.1	-117 22.0	2933.3	9.4	267	37345.
21	6	1967	0.0	20 8	-28 16.0	-117 40.8	2949.8	9.7	267	37416.
21	6	1967	0.0	2156	-28 16.8	-118 0.5	2967.2	9.2	268	37481.
21	6	1967	0.0	2340	-28 17.4	-118 18.7	2983.2	9.6	272	37542.
22	6	1967	0.0	133	-28 16.7	-118 39.2	3001.3	6.3	273	37548.
22	6	1967	0.0	150	-28 16.6	-118 41.2	3003.1	0.6	50	37528.
22	6	1967	0.0	618	-28 15.0	-118 39.0	3005.6	1.0	22	37526.
22	6	1967	0.0	636	-28 14.7	-118 38.9	3005.9	5.7	279	37530.
22	6	1967	0.0	657	-28 14.4	-118 41.1	3007.9	9.9	275	37563.
22	6	1967	0.0	8 4	-28 13.4	-118 53.6	3018.9	10.1	270	37606.
22	6	1967	0.0	912	-28 13.4	-119 6.6	3030.4	10.1	269	37674.
22	6	1967	0.0	1058	-28 13.6	-119 26.9	3048.3	10.2	267	37749.
22	6	1967	0.0	1246	-28 14.5	-119 47.7	3066.6	10.0	270	37889.
22	6	1967	0.0	1630	-28 14.6	-120 30.2	3104.1	5.9	270	37898.
22	6	1967	0.0	1656	-28 14.6	-120 33.1	3106.6	0.2	97	37898.
22	6	1967	0.0	1732	-28 14.6	-120 33.0	3106.7	0.4	33	37878.

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DAY	MON	YEAR	TZ	TIME	LATITUOE	LONGITUOE	OISTANCE	SPEED	COURSE	REGIONAL MAG
22	6	1967	0.0	2248	-28 12.7	-120 31.6	3109.0	0.7	342	37875.
22	6	1967	0.0	2330	-28 12.2	-120 31.8	3109.5	3.2	34	37867.
22	6	1967	0.0	2347	-28 11.5	-120 31.2	3110.4	0.7	342	37863.
23	6	1967	0.0	038	-28 10.9	-120 31.4	3111.0	0.1	114	37863.
23	6	1967	0.0	142	-28 11.0	-120 31.2	3111.1	9.1	270	37873.
23	6	1967	0.0	2 0	-28 11.0	-120 34.4	3113.9	9.8	270	37945.
23	6	1967	0.0	357	-28 11.1	-120 56.1	3133.0	6.3	267	37951.
23	6	1967	0.0	413	-28 11.2	-120 58.0	3134.7	9.7	268	37955.
23	6	1967	0.0	419	-28 11.2	-120 59.1	3135.7	6.5	267	37968.
23	6	1967	0.0	447	-28 11.3	-121 2.6	3138.7	9.9	268	37994.
23	6	1967	0.0	526	-28 11.6	-121 9.8	3145.1	9.8	264	38073.
23	6	1967	0.0	714	-28 13.4	-121 29.7	3162.8	10.0	265	38200.
23	6	1967	0.0	10 4	-28 16.0	-122 1.9	3191.2	9.7	266	38271.
23	6	1967	0.0	1148	-28 17.1	-122 20.9	3208.0	9.5	271	38278.
23	6	1967	0.0	12 0	-28 17.1	-122 23.1	3209.9	5.6	272	38288.
23	6	1967	0.0	1232	-28 17.0	-122 26.4	3212.9	0.6	47	38262.
23	6	1967	0.0	1722	-28 14.8	-122 23.9	3216.0	5.6	273	38266.
23	6	1967	0.0	1738	-28 14.7	-122 25.5	3217.5	9.5	272	38295.
23	6	1967	0.0	1830	-28 14.5	-122 35.0	3225.8	9.5	271	38356.
23	6	1967	0.0	2018	-28 14.2	-122 54.4	3242.9	10.3	272	38412.
23	6	1967	0.0	2153	-28 13.7	-123 13.0	3259.3	9.7	270	38475.
23	6	1967	0.0	2338	-28 13.8	-123 32.1	3276.1	10.3	268	38502.
24	6	1967	0.0	017	-28 14.1	-123 39.8	3282.9	6.3	267	38529.
24	6	1967	0.0	119	-28 14.4	-123 47.1	3289.4	10.4	268	38559.
24	6	1967	0.0	2 2	-28 14.7	-123 55.6	3296.9	6.7	267	38569.
24	6	1967	0.0	223	-28 14.8	-123 58.2	3299.2	10.5	268	38643.
24	6	1967	0.0	4 8	-28 15.5	-124 19.2	3317.7	6.3	267	38651.
24	6	1967	0.0	426	-28 15.6	-124 21.4	3319.6	0.4	232	38656.
24	6	1967	0.0	625	-28 16.0	-124 22.0	3320.3	0.5	76	38652.
24	6	1967	0.0	8 9	-28 15.8	-124 21.1	3321.1	2.7	88	38651.
24	6	1967	0.0	811	-28 15.8	-124 21.0	3321.2	2.6	88	38648.
24	6	1967	0.0	834	-28 15.8	-124 19.9	3322.2	6.4	271	38653.
24	6	1967	0.0	849	-28 15.7	-124 21.7	3323.8	9.8	271	38667.
24	6	1967	0.0	911	-28 15.7	-124 25.9	3327.5	10.3	268	38736.
24	6	1967	0.0	1053	-28 16.2	-124 45.8	3345.0	10.2	270	38803.
24	6	1967	0.0	1241	-28 16.2	-125 6.6	3363.3	10.3	269	38999.
24	6	1967	0.0	1743	-28 16.7	-126 5.3	3415.0	10.3	273	39017.
24	6	1967	0.0	1815	-28 16.5	-126 11.5	3420.5	6.4	317	39011.
24	6	1967	0.0	1830	-28 15.3	-126 12.7	3422.1	0.5	351	39007.
24	6	1967	0.0	1934	-28 14.8	-126 12.8	3422.5	0.4	341	38997.
24	6	1967	0.0	2250	-28 13.5	-126 13.3	3423.9	0.7	35	38991.
24	6	1967	0.0	2340	-28 13.0	-126 12.9	3424.5	5.5	276	39000.
25	6	1967	0.0	016	-28 12.7	-126 16.6	3427.8	9.6	273	39008.
25	6	1967	0.0	032	-28 12.5	-126 19.5	3430.3	10.1	270	39074.
25	6	1967	0.0	216	-28 12.6	-126 39.4	3447.9	9.0	270	39093.
25	6	1967	0.0	250	-28 12.6	-126 45.2	3453.0	10.1	270	39199.
25	6	1967	0.0	538	-28 12.8	-127 17.3	3481.3	10.1	272	39259.
25	6	1967	0.0	723	-28 12.1	-127 37.6	3499.2	9.9	267	39349.
25	6	1967	0.0	938	-28 13.1	-128 2.6	3521.3	6.0	266	39359.
25	6	1967	0.0	10 0	-28 13.3	-128 5.2	3523.5	0.5	201	39368.
25	6	1967	0.0	1146	-28 14.2	-128 5.6	3524.5	0.4	243	39375.
25	6	1967	0.0	1353	-28 14.6	-128 6.6	3525.4	3.6	267	39379.
25	6	1967	0.0	14 9	-28 14.7	-128 7.7	3526.5	5.9	268	39387.
25	6	1967	0.0	1430	-28 14.8	-128 10.0	3528.5	10.4	269	39544.
25	6	1967	0.0	1823	-28 15.5	-128 56.1	3569.1	5.5	268	39547.
25	6	1967	0.0	1833	-28 15.6	-128 57.1	3570.0	10.5	269	39553.
25	6	1967	0.0	1841	-28 15.6	-128 58.8	3571.5	10.1	269	39623.
25	6	1967	0.0	2030	-28 15.9	-129 19.6	3589.8	11.0	271	39628.
25	6	1967	0.0	2038	-28 15.9	-129 21.4	3591.4	6.8	271	39633.
25	6	1967	0.0	2050	-28 15.9	-129 22.8	3592.6	10.8	271	39640.
25	6	1967	0.0	21 0	-28 15.8	-129 24.9	3594.5	7.4	271	39642.
25	6	1967	0.0	21 6	-28 15.8	-129 25.7	3595.2	11.0	271	39672.
25	6	1967	0.0	2152	-28 15.7	-129 35.3	3603.6	9.9	272	39731.
25	6	1967	0.0	2336	-28 15.2	-129 54.8	3620.8	10.4	269	39733.
25	6	1967	0.0	2339	-28 15.2	-129 55.5	3621.5	6.4	269	39740.
25	6	1967	0.0	2356	-28 15.2	-129 57.6	3623.3	0.4	250	39750.
26	6	1967	0.0	4 3	-28 15.8	-129 59.2	3624.8	3.9	277	39752.
26	6	1967	0.0	411	-28 15.7	-129 59.8	3625.3	6.0	269	39761.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
26	6	1967	0.0	435	-28 15.7	-130 2.5	3627.7	10.6	269	39840.
26	6	1967	0.0	634	-28 16.0	-130 26.3	3648.7	9.9	269	39907.
26	6	1967	0.0	822	-28 16.2	-130 46.5	3666.4	10.1	269	40004.
26	6	1967	0.0	1052	-28 16.6	-131 15.1	3691.6	10.0	272	40064.
26	6	1967	0.0	1238	-28 16.1	-131 35.1	3709.3	11.0	268	40119.
26	6	1967	0.0	1353	-28 16.5	-131 50.9	3723.2	6.5	267	40127.
26	6	1967	0.0	1411	-28 16.6	-131 53.1	3725.1	0.8	246	40160.
26	6	1967	0.0	1941	-28 18.5	-131 57.9	3729.7	0.0	90	40160.
26	6	1967	0.0	1941	-28 18.5	-131 57.9	3729.7	1.3	237	40181.
26	6	1967	0.0	2139	-28 19.9	-132 0.4	3732.4	7.0	264	40192.
26	6	1967	0.0	22 1	-28 20.2	-132 3.2	3734.9	11.1	266	40204.
26	6	1967	0.0	2216	-28 20.4	-132 6.4	3737.7	7.1	264	40218.
26	6	1967	0.0	2241	-28 20.7	-132 9.8	3740.7	6.1	271	40219.
26	6	1967	0.0	2245	-28 20.7	-132 10.2	3741.1	10.2	274	40436.
27	6	1967	0.0	552	-28 15.3	-133 32.4	3813.6	10.7	274	40461.
27	6	1967	0.0	638	-28 14.7	-133 41.8	3821.9	6.3	275	40468.
27	6	1967	0.0	7 2	-28 14.5	-133 44.6	3824.4	0.7	280	40469.
27	6	1967	0.0	734	-28 14.4	-133 45.0	3824.7	0.6	207	40492.
27	6	1967	0.0	1143	-28 16.5	-133 46.2	3827.1	0.6	189	40503.
27	6	1967	0.0	1332	-28 17.6	-133 46.4	3828.2	0.1	77	40502.
27	6	1967	0.0	15 0	-28 17.6	-133 46.3	3828.3	2.6	271	40505.
27	6	1967	0.0	1518	-28 17.6	-133 47.2	3829.1	5.7	271	40511.
27	6	1967	0.0	1537	-28 17.5	-133 49.2	3830.9	10.0	271	40625.
27	6	1967	0.0	1853	-28 16.9	-134 26.3	3863.5	10.1	271	40729.
27	6	1967	0.0	2150	-28 16.4	-135 0.0	3893.2	10.0	269	40847.
28	6	1967	0.0	053	-28 17.0	-135 34.7	3923.8	5.8	267	40856.
28	6	1967	0.0	115	-28 17.1	-135 37.0	3925.8	0.4	173	40869.
28	6	1967	0.0	515	-28 18.7	-135 36.8	3927.4	3.2	234	40879.
28	6	1967	0.0	537	-28 19.4	-135 37.9	3928.6	5.6	266	40885.
28	6	1967	0.0	553	-28 19.5	-135 39.6	3930.0	10.6	268	40921.
28	6	1967	0.0	643	-28 19.8	-135 49.7	3939.0	10.4	270	40937.
28	6	1967	0.0	7 8	-28 19.8	-135 54.5	3943.2	10.4	273	40986.
28	6	1967	0.0	836	-28 19.1	-136 11.9	3958.5	10.8	273	41063.
28	6	1967	0.0	1050	-28 17.9	-136 39.3	3982.7	10.7	273	41124.
28	6	1967	0.0	1236	-28 17.0	-137 0.8	4001.6	10.4	270	41203.
28	6	1967	0.0	1438	-28 17.0	-137 25.1	4023.0	5.7	267	41211.
28	6	1967	0.0	15 0	-28 17.1	-137 27.4	4025.0	0.6	164	41225.
28	6	1967	0.0	18 6	-28 18.8	-137 26.8	4026.8	0.8	141	41229.
28	6	1967	0.0	1920	-28 19.5	-137 26.1	4027.8	2.8	246	41236.
28	6	1967	0.0	1941	-28 19.9	-137 27.2	4028.8	5.4	267	41245.
28	6	1967	0.0	20 4	-28 20.0	-137 29.5	4030.8	9.5	270	41401.
29	6	1967	0.0	027	-28 20.3	-138 17.1	4072.7	9.7	273	41414.
29	6	1967	0.0	054	-28 20.1	-138 22.1	4077.1	9.6	275	41553.
29	6	1967	0.0	6 4	-28 15.5	-139 18.3	4126.8	9.5	279	41555.
29	6	1967	0.0	610	-28 15.3	-139 19.5	4127.8	5.4	281	41559.
29	6	1967	0.0	633	-28 14.9	-139 21.7	4129.9	0.8	45	41550.
29	6	1967	0.0	743	-28 14.3	-139 21.0	4130.8	0.7	35	41539.
29	6	1967	0.0	934	-28 13.3	-139 20.2	4132.0	0.6	279	41540.
29	6	1967	0.0	1037	-28 13.2	-139 20.9	4132.7	6.5	271	41545.
29	6	1967	0.0	1049	-28 13.2	-139 22.4	4134.0	10.3	271	41577.
29	6	1967	0.0	1141	-28 13.1	-139 32.7	4143.0	9.5	270	41641.
29	6	1967	0.0	1330	-28 13.2	-139 52.2	4160.2	9.7	269	41905.
29	6	1967	0.0	2035	-28 14.7	-141 10.2	4228.9	7.1	268	41912.
29	6	1967	0.0	2050	-28 14.8	-141 12.2	4230.7	6.3	269	41916.
29	6	1967	0.0	21 0	-28 14.8	-141 13.4	4231.8	0.8	98	41912.
29	6	1967	0.0	2332	-28 15.1	-141 11.2	4233.8	0.2	354	41909.
30	6	1967	0.0	1 2	-28 14.8	-141 11.2	4234.1	6.2	272	41914.
30	6	1967	0.0	118	-28 14.7	-141 13.1	4235.7	6.1	272	41917.
30	6	1967	0.0	125	-28 14.7	-141 14.0	4236.5	10.0	271	42106.
30	6	1967	0.0	657	-28 13.5	-142 16.5	4291.6	9.9	270	42171.
30	6	1967	0.0	843	-28 13.6	-142 36.4	4309.2	10.2	268	42258.
30	6	1967	0.0	1050	-28 14.5	-143 0.9	4330.8	10.1	270	42277.
30	6	1967	0.0	1121	-28 14.5	-143 6.8	4336.0	6.5	269	42285.
30	6	1967	0.0	1138	-28 14.5	-143 9.0	4337.9	0.1	240	42285.
30	6	1967	0.0	1232	-28 14.6	-143 9.1	4338.0	0.3	302	42284.
30	6	1967	0.0	15 0	-28 14.2	-143 9.9	4338.8	3.0	300	42283.
30	6	1967	0.0	1518	-28 13.7	-143 10.8	4339.7	6.5	272	42292.
30	6	1967	0.0	1545	-28 13.6	-143 14.1	4342.6	10.3	271	42446.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
30	6	1967	0.0	20 2	-28 12.9	-144 4.0	4386.6	10.3	271	42543.
30	6	1967	0.0	2243	-28 12.5	-144 35.4	4414.3	9.8	267	42611.
1	7	1967	0.0	025	-28 13.3	-144 54.4	4431.0	10.3	265	42629.
1	7	1967	0.0	050	-28 13.7	-144 59.1	4435.2	7.0	263	42639.
1	7	1967	0.0	1 8	-28 13.9	-145 1.5	4437.3	0.9	196	42650.
1	7	1967	0.0	216	-28 14.9	-145 1.8	4438.3	0.1	221	42654.
1	7	1967	0.0	6 9	-28 15.2	-145 2.1	4438.7	0.2	75	42653.
1	7	1967	0.0	618	-28 15.2	-145 2.1	4438.8	5.8	271	42659.
1	7	1967	0.0	634	-28 15.2	-145 3.8	4440.3	9.8	270	42706.
1	7	1967	0.0	753	-28 15.1	-145 18.6	4453.3	10.5	270	42777.
1	7	1967	0.0	946	-28 15.1	-145 41.0	4473.1	10.9	269	42855.
1	7	1967	0.0	1139	-28 15.3	-146 4.5	4493.8	10.8	270	42924.
1	7	1967	0.0	1325	-28 15.3	-146 26.2	4512.9	9.8	271	42992.
1	7	1967	0.0	1525	-28 14.9	-146 48.5	4532.5	8.0	272	43001.
1	7	1967	0.0	1545	-28 14.8	-146 51.4	4535.1	0.3	43	42986.
1	7	1967	0.0	21 0	-28 13.6	-146 50.2	4536.7	6.6	270	42992.
1	7	1967	0.0	2115	-28 13.6	-146 52.1	4538.4	10.9	270	43076.
1	7	1967	0.0	2322	-28 13.7	-147 18.1	4561.3	10.6	193	43094.
1	7	1967	0.0	2332	-28 15.4	-147 18.6	4563.2	10.9	270	43164.
2	7	1967	0.0	116	-28 15.5	-147 40.1	4582.1	10.2	271	43368.
2	7	1967	0.0	653	-28 14.8	-148 45.3	4639.5	5.7	271	43372.
2	7	1967	0.0	7 8	-28 14.8	-148 46.8	4640.9	5.4	274	43376.
2	7	1967	0.0	722	-28 14.7	-148 48.2	4642.1	0.5	42	43361.
2	7	1967	0.0	1046	-28 13.5	-148 47.0	4643.8	0.6	344	43354.
2	7	1967	0.0	12 8	-28 12.7	-148 47.2	4644.6	6.2	275	43358.
2	7	1967	0.0	1223	-28 12.6	-148 48.9	4646.0	10.2	273	43365.
2	7	1967	0.0	1236	-28 12.5	-148 51.4	4648.2	10.7	266	43444.
2	7	1967	0.0	1420	-28 13.7	-149 12.4	4666.8	10.0	266	43515.
2	7	1967	0.0	16 0	-28 14.7	-149 31.3	4683.5	10.0	267	43618.
2	7	1967	0.0	1825	-28 16.2	-149 58.9	4707.8	10.3	268	43691.
2	7	1967	0.0	2011	-28 16.8	-150 19.6	4726.0	10.0	270	43742.
2	7	1967	0.0	2138	-28 16.7	-150 35.9	4740.4	6.0	301	43738.
2	7	1967	0.0	22 3	-28 15.4	-150 38.4	4743.0	9.9	270	43773.
2	7	1967	0.0	23 2	-28 15.3	-150 49.5	4752.7	0.1	6	43772.
3	7	1967	0.0	025	-28 15.2	-150 49.5	4752.9	0.9	296	43771.
3	7	1967	0.0	2 9	-28 14.5	-150 51.1	4754.4	0.2	130	43772.
3	7	1967	0.0	330	-28 14.7	-150 50.8	4754.7	2.6	315	43769.
3	7	1967	0.0	345	-28 14.2	-150 51.4	4755.4	6.2	269	43773.
3	7	1967	0.0	353	-28 14.3	-150 52.3	4756.2	8.8	269	43848.
3	7	1967	0.0	6 8	-28 14.6	-151 14.6	4775.9	6.0	269	43852.
3	7	1967	0.0	618	-28 14.6	-151 15.8	4776.9	6.5	271	43860.
3	7	1967	0.0	638	-28 14.6	-151 18.3	4779.2	9.3	271	44025.
3	7	1967	0.0	1136	-28 14.1	-152 10.7	4825.3	9.5	267	44042.
3	7	1967	0.0	12 0	-28 14.3	-152 15.1	4829.1	9.0	266	44094.
3	7	1967	0.0	1322	-28 15.1	-152,29.0	4841.4	8.7	272	44107.
3	7	1967	0.0	1347	-28 15.0	-152 33.1	4845.1	5.5	274	44113.
3	7	1967	0.0	14 8	-28 14.8	-152 35.4	4847.1	0.4	332	44099.
3	7	1967	0.0	1927	-28 13.0	-152 36.5	4849.1	0.6	46	44096.
3	7	1967	0.0	20 2	-28 12.8	-152 36.2	4849.5	4.7	275	44100.
3	7	1967	0.0	2020	-28 12.6	-152 37.8	4850.9	7.6	273	44120.
3	7	1967	0.0	21 9	-28 12.3	-152 44.9	4857.1	7.2	272	44179.
3	7	1967	0.0	2332	-28 11.8	-153 4.4	4874.3	7.5	272	44181.
3	7	1967	0.0	2337	-28 11.8	-153 5.1	4874.9	8.6	107	44179.
3	7	1967	0.0	2350	-28 12.3	-153 3.0	4876.8	7.5	272	44217.
4	7	1967	0.0	120	-28 11.9	-153 15.8	4888.1	7.2	264	44417.
4	7	1967	0.0	718	-28 16.2	-154 4.6	4931.3	8.7	269	44476.
4	7	1967	0.0	9 4	-28 16.4	-154 22.1	4946.7	9.0	271	44480.
4	7	1967	0.0	912	-28 16.4	-154 23.5	4947.9	6.0	301	44478.
4	7	1967	0.0	930	-28 15.5	-154 25.3	4949.7	0.3	312	44476.
4	7	1967	0.0	1043	-28 15.2	-154 25.6	4950.1	0.3	240	44481.
4	7	1967	0.0	1230	-28 15.5	-154 26.2	4950.7	0.3	132	44483.
4	7	1967	0.0	1416	-28 15.9	-154 25.7	4951.3	1.0	35	44477.
4	7	1967	0.0	1453	-28 15.4	-154 25.3	4952.0	5.1	280	44481.
4	7	1967	0.0	1518	-28 15.0	-154 27.6	4954.0	9.0	275	44610.
4	7	1967	0.0	2023	-28 10.7	-155 19.2	4999.7	9.6	272	44667.
4	7	1967	0.0	2211	-28 10.0	-155 38.7	5016.9	9.3	271	44691.
4	7	1967	0.0	2253	-28 9.9	-155 46.2	5023.5	8.7	260	44756.
5	7	1967	0.0	018	-28 12.0	-155 59.9	5035.8	8.1	255	44779.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
5	7	1967	0.0	045	-28 13.0	-156 3.9	5039.5	8.2	255	44841.
5	7	1967	0.0	2 0	-28 15.7	-156 15.1	5049.7	5.3	252	44845.
5	7	1967	0.0	2 8	-28 15.9	-156 15.8	5050.3	5.8	254	44853.
5	7	1967	0.0	221	-28 16.2	-156 17.2	5051.6	0.7	137	44866.
5	7	1967	0.0	632	-28 18.3	-156 15.0	5054.4	0.5	100	44864.
5	7	1967	0.0	753	-28 18.4	-156 14.3	5055.0	2.1	123	44865.
5	7	1967	0.0	8 8	-28 18.7	-156 13.8	5055.6	3.6	182	44870.
5	7	1967	0.0	816	-28 19.2	-156 13.8	5056.1	2.7	271	44870.
5	7	1967	0.0	818	-28 19.2	-156 13.9	5056.1	5.9	271	44874.
5	7	1967	0.0	827	-28 19.2	-156 15.0	5057.1	8.5	272	44922.
5	7	1967	0.0	10 6	-28 18.8	-156 30.8	5071.0	8.1	272	44964.
5	7	1967	0.0	1136	-28 18.4	-156 44.6	5083.2	8.6	273	45013.
5	7	1967	0.0	1320	-28 17.6	-157 1.5	5098.1	8.4	273	45088.
5	7	1967	0.0	16 0	-28 16.6	-157 26.9	5120.4	8.2	273	45185.
5	7	1967	0.0	1932	-28 15.3	-157 59.7	5149.4	8.4	274	45214.
5	7	1967	0.0	2040	-28 14.6	-158 10.6	5159.0	5.1	276	45217.
5	7	1967	0.0	2053	-28 14.5	-158 11.9	5160.1	7.3	275	45221.
5	7	1967	0.0	21 3	-28 14.4	-158 13.1	5161.3	0.5	52	45219.
5	7	1967	0.0	2122	-28 14.3	-158 13.0	5161.4	0.7	36	45205.
5	7	1967	0.0	2327	-28 13.1	-158 12.0	5162.9	0.7	345	45194.
6	7	1967	0.0	118	-28 11.8	-158 12.4	5164.2	0.5	304	45193.
6	7	1967	0.0	2 8	-28 11.6	-158 12.8	5164.6	2.1	86	45189.
6	7	1967	0.0	230	-28 11.5	-158 11.9	5165.4	6.4	272	45196.
6	7	1967	0.0	247	-28 11.5	-158 13.9	5167.2	10.4	269	45382.
6	7	1967	0.0	725	-28 11.9	-159 8.6	5215.4	10.3	269	45457.
6	7	1967	0.0	916	-28 12.2	-159 30.1	5234.3	10.4	264	45586.
6	7	1967	0.0	1153	-28 14.8	-160 1.0	5261.6	6.3	262	45599.
6	7	1967	0.0	1217	-28 15.2	-160 3.7	5264.1	0.7	208	45600.
6	7	1967	0.0	1227	-28 15.3	-160 3.8	5264.2	0.8	246	45611.
6	7	1967	0.0	1411	-28 15.9	-160 5.3	5265.7	0.4	245	45620.
6	7	1967	0.0	1715	-28 16.4	-160 6.6	5267.0	3.4	267	45624.
6	7	1967	0.0	1731	-28 16.5	-160 7.6	5267.9	6.2	268	45633.
6	7	1967	0.0	1753	-28 16.5	-160 10.2	5270.1	10.4	269	45670.
6	7	1967	0.0	1846	-28 16.7	-160 20.7	5279.4	10.0	273	45729.
6	7	1967	0.0	2032	-28 15.8	-160 40.8	5297.1	9.9	269	45758.
6	7	1967	0.0	2115	-28 15.9	-160 48.9	5304.2	6.3	269	45762.
6	7	1967	0.0	2123	-28 15.9	-160 49.9	5305.1	9.9	269	45800.
6	7	1967	0.0	2222	-28 16.1	-161 0.8	5314.7	10.2	269	45877.
7	7	1967	0.0	016	-28 16.3	-161 22.9	5334.2	10.3	269	45951.
7	7	1967	0.0	2 6	-28 16.5	-161 44.3	5353.0	10.0	270	45989.
7	7	1967	0.0	3 5	-28 16.5	-161 55.4	5362.8	6.4	270	45997.
7	7	1967	0.0	325	-28 16.5	-161 57.9	5365.0	0.0	37	45997.
7	7	1967	0.0	752	-28 16.4	-161 57.9	5365.1	3.2	150	46002.
7	7	1967	0.0	8 8	-28 17.2	-161 57.4	5366.0	5.8	270	46009.
7	7	1967	0.0	827	-28 17.2	-161 59.4	5367.8	6.2	274	46012.
7	7	1967	0.0	837	-28 17.1	-162 0.5	5368.8	10.5	272	46072.
7	7	1967	0.0	1016	-28 16.4	-162 20.2	5386.1	10.7	272	46120.
7	7	1967	0.0	1134	-28 15.8	-162 36.0	5400.0	10.4	274	46180.
7	7	1967	0.0	1320	-28 14.6	-162 56.8	5418.4	10.0	272	46240.
7	7	1967	0.0	15 0	-28 14.1	-163 15.8	5435.2	10.2	272	46344.
7	7	1967	0.0	1748	-28 13.4	-163 48.3	5463.7	6.4	272	46351.
7	7	1967	0.0	18 8	-28 13.3	-163 50.6	5465.9	0.3	355	46338.
7	7	1967	0.0	2325	-28 11.8	-163 50.8	5467.3	0.4	210	46340.
8	7	1967	0.0	0 2	-28 12.0	-163 50.9	5467.6	6.0	219	46357.
8	7	1967	0.0	019	-28 13.3	-163 52.2	5469.3	9.7	267	46391.
8	7	1967	0.0	1 8	-28 13.7	-164 1.1	5477.2	9.8	269	46467.
8	7	1967	0.0	3 0	-28 14.1	-164 22.0	5495.6	8.8	271	46502.
8	7	1967	0.0	4 2	-28 14.0	-164 32.3	5504.7	5.1	272	46508.
8	7	1967	0.0	423	-28 14.0	-164 34.3	5506.4	8.9	271	46618.
8	7	1967	0.0	738	-28 13.7	-165 7.1	5535.3	9.5	272	46636.
8	7	1967	0.0	8 8	-28 13.6	-165 12.6	5540.2	9.9	272	46681.
8	7	1967	0.0	923	-28 13.2	-165 26.7	5552.6	0.0	90	46681.
8	7	1967	0.0	923	-28 13.2	-165 26.7	5552.6	9.6	268	46734.
8	7	1967	0.0	1040	-28 13.7	-165 40.6	5564.9	5.4	267	46742.
8	7	1967	0.0	11 0	-28 13.8	-165 42.6	5566.6	0.5	118	46743.
8	7	1967	0.0	1223	-28 14.1	-165 42.0	5567.3	0.8	111	46742.
8	7	1967	0.0	14 9	-28 14.6	-165 40.5	5568.7	0.8	116	46743.
8	7	1967	0.0	1621	-28 15.4	-165 38.7	5570.5	2.2	261	46748.

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8	7	1967	0.0	1645	-28 15.5	-165 39.7	5571.4	5.7	266	46758.
8	7	1967	0.0	17 8	-28 15.7	-165 42.2	5573.6	9.2	268	46830.
8	7	1967	0.0	1857	-28 16.3	-166 1.2	5590.4	10.2	269	46905.
8	7	1967	0.0	2043	-28 16.7	-166 21.7	5608.4	9.1	268	46979.
8	7	1967	0.0	2236	-28 17.4	-166 41.0	5625.4	10.3	268	47049.
9	7	1967	0.0	013	-28 17.9	-167 0.0	5642.2	10.1	270	47135.
9	7	1967	0.0	221	-28 18.0	-167 24.5	5663.7	6.1	270	47141.
9	7	1967	0.0	235	-28 18.0	-167 26.1	5665.2	0.2	260	47145.
9	7	1967	0.0	655	-28 18.1	-167 27.0	5665.9	0.4	55	47141.
9	7	1967	0.0	8 3	-28 17.8	-167 26.6	5666.4	5.6	272	47146.
9	7	1967	0.0	817	-28 17.8	-167 28.1	5667.7	9.7	271	47157.
9	7	1967	0.0	836	-28 17.7	-167 31.5	5670.7	9.9	272	47224.
9	7	1967	0.0	1027	-28 17.1	-167 52.3	5689.1	9.5	277	47253.
9	7	1967	0.0	1132	-28 15.9	-168 3.9	5699.4	10.0	271	47319.
9	7	1967	0.0	1316	-28 15.6	-168 23.6	5716.7	9.8	273	47379.
9	7	1967	0.0	15 4	-28 14.6	-168 43.6	5734.4	9.6	267	47398.
9	7	1967	0.0	1530	-28 14.8	-168 48.4	5738.6	5.8	265	47408.
9	7	1967	0.0	1552	-28 15.0	-168 50.7	5740.7	0.6	143	47421.
9	7	1967	0.0	1953	-28 16.9	-168 49.1	5743.1	0.5	103	47419.
9	7	1967	0.0	2124	-28 17.1	-168 48.3	5743.8	5.5	269	47425.
9	7	1967	0.0	2139	-28 17.1	-168 49.9	5745.2	9.5	269	47426.
9	7	1967	0.0	2141	-28 17.1	-168 50.2	5745.5	10.5	273	47490.
9	7	1967	0.0	2323	-28 16.3	-169 10.5	5763.4	11.3	272	47558.
10	7	1967	0.0	1 4	-28 15.6	-169 31.9	5782.2	9.8	271	47626.
10	7	1967	0.0	255	-28 15.2	-169 52.5	5800.4	10.1	269	47697.
10	7	1967	0.0	438	-28 15.4	-170 12.1	5817.7	5.9	269	47706.
10	7	1967	0.0	5 0	-28 15.4	-170 14.6	5819.8	0.1	216	47710.
10	7	1967	0.0	750	-28 15.7	-170 14.8	5820.2	0.3	111	47709.
10	7	1967	0.0	934	-28 15.9	-170 14.2	5820.7	0.1	200	47709.
10	7	1967	0.0	938	-28 15.9	-170 14.2	5820.7	2.9	269	47713.
10	7	1967	0.0	956	-28 15.9	-170 15.2	5821.6	6.0	269	47719.
10	7	1967	0.0	1010	-28 15.9	-170 16.8	5823.0	10.0	270	47808.
10	7	1967	0.0	1222	-28 16.1	-170 41.7	5844.9	11.0	268	47893.
10	7	1967	0.0	14 8	-28 16.9	-171 3.7	5864.3	10.6	269	48020.
10	7	1967	0.0	17 0	-28 17.5	-171 35.2	5894.8	6.3	268	48028.
10	7	1967	0.0	1718	-28 17.5	-171 40.4	5896.6	0.6	252	48043.
10	7	1967	0.0	2053	-28 18.2	-171 42.8	5898.9	1.5	103	48030.
11	7	1967	0.0	157	-28 19.9	-171 34.3	5906.6	0.6	76	48017.
11	7	1967	0.0	535	-28 19.4	-171 32.0	5908.6	2.9	273	48019.
11	7	1967	0.0	545	-28 19.4	-171 32.6	5909.1	9.4	271	48067.
11	7	1967	0.0	7 4	-28 19.2	-171 46.7	5921.5	10.2	277	48166.
11	7	1967	0.0	1034	-28 14.8	-172 26.8	5957.1	9.8	274	48279.
11	7	1967	0.0	14 5	-28 12.2	-173 5.9	5991.6	6.2	277	48284.
11	7	1967	0.0	1423	-28 11.9	-173 8.1	5993.6	0.8	15	48240.
11	7	1967	0.0	1953	-28 7.8	-173 6.9	5997.8	2.6	120	48241.
11	7	1967	0.0	2011	-28 8.2	-173 6.1	5998.6	5.7	277	48248.
11	7	1967	0.0	2035	-28 8.0	-173 8.6	6000.9	9.3	271	48320.
11	7	1967	0.0	2234	-28 7.8	-173 29.4	6019.2	9.8	270	48356.
11	7	1967	0.0	2330	-28 7.7	-173 39.9	6028.5	9.3	271	48411.
12	7	1967	0.0	1 0	-28 7.6	-173 55.8	6042.4	9.6	233	48424.
12	7	1967	0.0	1 9	-28 8.5	-173 57.1	6044.0	5.5	235	48439.
12	7	1967	0.0	127	-28 9.5	-173 58.6	6045.6	0.8	15	48396.
12	7	1967	0.0	648	-28 5.5	-173 57.4	6049.7	5.6	267	48401.
12	7	1967	0.0	7 0	-28 5.5	-173 58.7	6050.8	9.7	264	48536.
12	7	1967	0.0	948	-28 8.3	-174 29.4	6078.0	9.7	262	48637.
12	7	1967	0.0	1145	-28 10.9	-174 50.8	6097.1	5.7	264	48644.
12	7	1967	0.0	12 0	-28 11.1	-174 52.4	6098.5	0.4	26	48642.
12	7	1967	0.0	1225	-28 10.9	-174 52.3	6098.7	0.7	71	48634.
12	7	1967	0.0	14 4	-28 10.5	-174 51.0	6099.9	0.4	12	48622.
12	7	1967	0.0	1722	-28 9.4	-174 50.7	6101.1	6.0	273	48627.
12	7	1967	0.0	1738	-28 9.3	-174 52.5	6102.6	9.9	272	48677.
12	7	1967	0.0	19 0	-28 8.8	-175 7.9	6116.3	9.9	264	48888.
12	7	1967	0.0	2316	-28 13.3	-175 55.6	6158.5	6.0	265	48898.
12	7	1967	0.0	2336	-28 13.4	-175 57.8	6160.4	6.1	93	48854.
13	7	1967	0.0	138	-28 14.0	-175 43.7	6172.8	5.9	277	48865.
13	7	1967	0.0	220	-28 13.5	-175 48.3	6176.9	0.4	12	48847.
13	7	1967	0.0	713	-28 11.8	-175 47.9	6178.6	0.6	229	48857.
13	7	1967	0.0	855	-28 12.5	-175 48.8	6179.7	1.0	153	48865.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
13	7	1967	0.0	10 0	-28 13.5	-175 48.2	6180.8	4.7	258	48877.
13	7	1967	0.0	1026	-28 13.9	-175 50.5	6182.9	6.0	130	48883.
13	7	1967	0.0	1048	-28 15.3	-175 48.6	6185.0	5.4	125	48884.
13	7	1967	0.0	1053	-28 15.6	-175 48.1	6185.5	4.7	246	48928.
13	7	1967	0.0	12 6	-28 17.9	-175 54.1	6191.2	4.8	3	48904.
13	7	1967	0.0	1236	-28 15.5	-175 53.9	6193.6	5.3	73	48865.
13	7	1967	0.0	1342	-28 13.8	-175 47.5	6199.5	4.6	246	48884.
13	7	1967	0.0	1415	-28 14.8	-175 50.1	6202.0	0.4	131	48891.
13	7	1967	0.0	1936	-28 16.1	-175 48.5	6204.0	9.8	269	48977.
13	7	1967	0.0	2140	-28 16.6	-176 11.7	6224.4	0.4	131	48984.
14	7	1967	0.0	3 8	-28 17.9	-176 10.0	6226.3	1.9	274	48986.
14	7	1967	0.0	330	-28 17.8	-176 10.8	6227.0	9.7	271	49047.
14	7	1967	0.0	5 7	-28 17.7	-176 28.5	6242.7	0.4	132	49051.
14	7	1967	0.0	813	-28 18.4	-176 27.6	6243.8	0.2	1	49050.
14	7	1967	0.0	854	-28 18.3	-176 27.6	6243.9	2.5	264	49053.
14	7	1967	0.0	911	-28 18.4	-176 28.4	6244.6	2.6	276	49054.
14	7	1967	0.0	916	-28 18.3	-176 28.6	6244.8	10.1	273	49077.
14	7	1967	0.0	955	-28 18.0	-176 36.1	6251.4	9.7	272	49165.
14	7	1967	0.0	1224	-28 17.1	-177 3.5	6275.5	0.3	88	49160.
14	7	1967	0.0	1538	-28 17.1	-177 2.2	6276.7	2.1	273	49162.
14	7	1967	0.0	1555	-28 17.0	-177 2.9	6277.3	9.7	272	49241.
14	7	1967	0.0	18 9	-28 16.2	-177 27.4	6298.9	0.3	88	49237.
14	7	1967	0.0	2038	-28 16.2	-177 26.4	6299.7	9.6	275	49255.
14	7	1967	0.0	2113	-28 15.7	-177 32.9	6305.5	10.2	275	49300.
14	7	1967	0.0	2237	-28 14.5	-177 49.0	6319.7	10.0	94	49283.
14	7	1967	0.0	23 9	-28 14.9	-177 42.8	6325.2	0.3	266	49285.
15	7	1967	0.0	053	-28 14.9	-177 43.3	6325.6	2.9	242	49291.
15	7	1967	0.0	1 8	-28 15.3	-177 44.1	6326.4	8.5	130	49302.
15	7	1967	0.0	135	-28 17.7	-177 40.9	6330.1	6.0	131	49308.
15	7	1967	0.0	152	-28 18.8	-177 39.4	6331.8	6.3	133	49314.
15	7	1967	0.0	2 8	-28 20.0	-177 37.9	6333.6	9.1	132	49476.
15	7	1967	0.0	722	-28 51.5	-176 57.6	6380.9	9.0	129	49521.
15	7	1967	0.0	9 8	-29 1.5	-176 43.4	6396.9	8.0	130	49543.
15	7	1967	0.0	10 0	-29 6.0	-176 37.2	6403.9	8.1	130	49620.
15	7	1967	0.0	13 8	-29 22.2	-176 15.1	6429.1	9.1	128	49661.
15	7	1967	0.0	1453	-29 32.0	-176 0.5	6445.2	8.2	125	49664.
15	7	1967	0.0	15 2	-29 32.7	-175 59.4	6446.3	4.9	122	49666.
15	7	1967	0.0	1520	-29 33.4	-175 58.0	6447.8	10.9	312	49554.
15	7	1967	0.0	1820	-29 11.5	-176 25.7	6480.4	9.7	125	49599.
15	7	1967	0.0	2023	-29 23.0	-176 7.0	6500.3	10.5	131	49662.
15	7	1967	0.0	2216	-29 36.0	-175 50.0	6520.0	10.7	130	49750.
16	7	1967	0.0	1 6	-29 55.2	-175 23.2	6550.2	10.4	133	49853.
16	7	1967	0.0	4 0	-30 15.7	-174 57.4	6580.5	10.4	133	50004.
16	7	1967	0.0	818	-30 46.0	-174 19.0	6625.4	11.4	126	50020.
16	7	1967	0.0	856	-30 50.3	-174 12.1	6632.7	9.4	269	50066.
16	7	1967	0.0	10 6	-30 50.4	-174 24.8	6643.6	10.1	271	50222.
16	7	1967	0.0	1357	-30 49.8	-175 10.3	6682.7	10.8	274	50337.
16	7	1967	0.0	17 0	-30 47.7	-175 48.4	6715.4	10.8	274	50503.
16	7	1967	0.0	2123	-30 44.6	-176 43.4	6762.8	11.0	269	50630.
17	7	1967	0.0	0 6	-30 45.0	-177 18.0	6792.5	10.9	270	50708.
17	7	1967	0.0	150	-30 45.0	-177 40.0	6811.5	10.3	274	50744.
17	7	1967	0.0	250	-30 44.3	-177 52.0	6821.8	10.2	269	50952.
17	7	1967	0.0	732	-30 45.3	-178 48.0	6869.9	10.6	265	51002.
17	7	1967	0.0	830	-30 46.1	-178 59.9	6880.2	10.6	5	50916.
17	7	1967	0.0	920	-30 37.4	-178 59.0	6889.0	10.5	1	50707.
17	7	1967	0.0	1123	-30 15.7	-178 58.4	6910.7	10.8	6	50664.
17	7	1967	0.0	1148	-30 11.3	-178 57.9	6915.1	10.7	9	50528.
17	7	1967	0.0	13 4	-29 57.9	-178 55.5	6928.7	10.1	7	50346.
17	7	1967	0.0	1452	-29 39.8	-178 53.1	6946.9	10.3	11	50016.
17	7	1967	0.0	18 0	-29 7.9	-178 46.1	6979.3	10.3	11	49743.
17	7	1967	0.0	2036	-28 41.6	-178 40.4	7006.1	11.0	10	49525.
17	7	1967	0.0	2232	-28 20.6	-178 36.1	7027.5	10.2	338	49484.
17	7	1967	0.0	23 5	-28 15.5	-178 38.5	7033.0	6.7	339	49469.
17	7	1967	0.0	2323	-28 13.6	-178 39.3	7035.0	0.6	35	49460.
18	7	1967	0.0	055	-28 12.9	-178 38.7	7035.9	1.1	353	49440.
18	7	1967	0.0	246	-28 10.8	-178 39.0	7038.0	0.5	359	49437.
18	7	1967	0.0	330	-28 10.4	-178 39.0	7038.4	6.4	271	49447.
18	7	1967	0.0	354	-28 10.4	-178 42.0	7041.0	9.9	269	49625.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
18	7	1967	0.0	815	-28 11.0	-179 30.9	7084.1	5.2	272	49629.
18	7	1967	0.0	827	-28 11.0	-179 32.1	7085.2	5.1	271	49630.
18	7	1967	0.0	830	-28 11.0	-179 32.4	7085.4	0.4	11	49622.
18	7	1967	0.0	10 8	-28 10.3	-179 32.2	7086.1	2.6	62	49619.
18	7	1967	0.0	1018	-28 10.1	-179 31.8	7086.5	2.0	62	49617.
18	7	1967	0.0	1023	-28 10.0	-179 31.6	7086.7	6.5	267	49625.
18	7	1967	0.0	1038	-28 10.1	-179 33.4	7088.3	10.5	267	49781.
18	7	1967	0.0	1357	-28 12.0	179 47.3	7123.0	11.1	267	49859.
18	7	1967	0.0	1532	-28 12.9	179 27.4	7140.5	6.8	251	49873.
18	7	1967	0.0	1550	-28 13.6	179 25.3	7142.6	1.2	275	49887.
18	7	1967	0.0	1948	-28 13.2	179 20.1	7147.1	0.4	7	49886.
18	7	1967	0.0	20 3	-28 13.1	179 20.1	7147.2	2.9	1	49879.
18	7	1967	0.0	2020	-28 12.3	179 20.1	7148.0	6.4	272	49886.
18	7	1967	0.0	2038	-28 12.2	179 17.9	7150.0	10.0	271	50012.
19	7	1967	0.0	0 2	-28 11.6	178 39.6	7183.7	10.8	270	50040.
19	7	1967	0.0	040	-28 11.6	178 31.7	7190.7	6.5	240	50062.
19	7	1967	0.0	1 5	-28 13.0	178 29.1	7193.3	0.8	278	50063.
19	7	1967	0.0	146	-28 12.9	178 28.5	7193.9	1.1	293	50062.
19	7	1967	0.0	611	-28 11.0	178 23.4	7198.8	0.8	278	50063.
19	7	1967	0.0	625	-28 11.0	178 23.2	7199.0	6.7	269	50069.
19	7	1967	0.0	638	-28 11.0	178 21.6	7200.3	10.6	269	50080.
19	7	1967	0.0	653	-28 11.1	178 18.4	7203.1	10.8	265	50121.
19	7	1967	0.0	741	-28 11.8	178 8.7	7211.8	10.1	264	50211.
19	7	1967	0.0	927	-28 13.8	177 48.5	7229.7	9.8	264	50279.
19	7	1967	0.0	1053	-28 15.2	177 32.8	7243.6	5.0	264	50283.
19	7	1967	0.0	11 3	-28 15.3	177 31.8	7244.4	0.2	78	50280.
19	7	1967	0.0	13 2	-28 15.2	177 32.4	7244.9	0.2	127	50281.
19	7	1967	0.0	1452	-28 15.4	177 32.7	7245.2	0.7	125	50286.
19	7	1967	0.0	1725	-28 16.4	177 34.3	7247.0	0.5	85	50284.
19	7	1967	0.0	1754	-28 16.4	177 34.6	7247.2	2.1	274	50286.
19	7	1967	0.0	18 8	-28 16.3	177 34.0	7247.7	5.0	270	50290.
19	7	1967	0.0	1822	-28 16.3	177 32.8	7248.8	9.5	272	50319.
19	7	1967	0.0	1913	-28 16.0	177 23.5	7257.0	9.7	274	50369.
19	7	1967	0.0	2048	-28 14.9	177 6.1	7272.3	9.8	275	50442.
19	7	1967	0.0	2310	-28 13.0	176 39.6	7295.7	5.7	276	50447.
19	7	1967	0.0	2332	-28 12.8	176 37.3	7297.8	0.5	27	50440.
20	7	1967	0.0	057	-28 12.2	176 37.7	7298.4	0.7	356	50429.
20	7	1967	0.0	241	-28 11.0	176 37.6	7299.6	0.6	357	50414.
20	7	1967	0.0	520	-28 9.4	176 37.5	7301.2	0.8	21	50412.
20	7	1967	0.0	533	-28 9.2	176 37.6	7301.4	9.4	274	50415.
20	7	1967	0.0	540	-28 9.2	176 36.2	7302.6	9.6	268	50473.
20	7	1967	0.0	7 6	-28 9.6	176 20.7	7316.3	10.4	265	50551.
20	7	1967	0.0	841	-28 11.0	176 2.0	7332.8	10.1	265	50633.
20	7	1967	0.0	1025	-28 12.4	175 42.2	7350.4	9.1	264	50662.
20	7	1967	0.0	11 6	-28 13.0	175 35.3	7356.5	10.9	87	50631.
20	7	1967	0.0	1145	-28 12.7	175 43.4	7363.6	0.9	80	50629.
20	7	1967	0.0	12 8	-28 12.6	175 43.8	7364.0	0.6	52	50619.
20	7	1967	0.0	1353	-28 11.9	175 44.8	7365.1	0.3	63	50612.
20	7	1967	0.0	1636	-28 11.5	175 45.7	7366.0	0.7	126	50615.
20	7	1967	0.0	1825	-28 12.2	175 46.8	7367.2	0.2	170	50616.
20	7	1967	0.0	1840	-28 12.3	175 46.8	7367.2	8.7	180	50644.
20	7	1967	0.0	19 0	-28 15.1	175 46.8	7370.1	10.1	180	50722.
20	7	1967	0.0	1948	-28 23.2	175 46.9	7378.2	10.5	91	50709.
20	7	1967	0.0	20 8	-28 23.3	175 51.0	7381.8	9.0	91	50657.
20	7	1967	0.0	2143	-28 23.6	176 7.2	7396.1	8.9	87	50564.
21	7	1967	0.0	0 4	-28 22.5	176 31.0	7417.0	8.9	85	50549.
21	7	1967	0.0	024	-28 22.2	176 34.5	7420.1	9.7	359	50469.
21	7	1967	0.0	116	-28 13.9	176 34.3	7428.4	9.2	275	50479.
21	7	1967	0.0	139	-28 13.6	176 30.3	7432.0	8.6	271	50570.
21	7	1967	0.0	432	-28 13.1	176 2.4	7456.6	8.8	272	50596.
21	7	1967	0.0	522	-28 12.9	175 54.2	7463.8	5.6	273	50600.
21	7	1967	0.0	532	-28 12.8	175 53.1	7464.8	8.8	272	50623.
21	7	1967	0.0	616	-28 12.6	175 45.8	7471.2	0.0	90	50623.
21	7	1967	0.0	616	-28 12.6	175 45.8	7471.2	9.4	270	50671.
21	7	1967	0.0	734	-28 12.7	175 32.0	7483.4	6.8	269	50672.
21	7	1967	0.0	738	-28 12.7	175 31.5	7483.8	9.4	270	50681.
21	7	1967	0.0	752	-28 12.7	175 29.0	7486.0	8.7	267	50751.
21	7	1967	0.0	941	-28 13.6	175 11.0	7501.9	8.0	268	50855.

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21	7	1967	0.0	1247	-28 14.3	174 42.8	7526.8	5.2	267	50861.
21	7	1967	0.0	13 2	-28 14.4	174 41.3	7528.1	4.6	273	50863.
21	7	1967	0.0	1310	-28 14.4	174 40.6	7528.7	1.6	82	50849.
21	7	1967	0.0	1448	-28 14.0	174 43.4	7531.2	1.1	114	50851.
21	7	1967	0.0	1732	-28 15.2	174 46.4	7534.1	1.1	141	50861.
21	7	1967	0.0	1920	-28 16.7	174 47.8	7536.1	0.8	259	50864.
21	7	1967	0.0	20 0	-28 16.8	174 47.2	7536.6	0.2	153	50865.
21	7	1967	0.0	2047	-28 16.9	174 47.3	7536.8	4.9	266	50868.
21	7	1967	0.0	2055	-28 17.0	174 46.5	7537.5	4.0	274	50869.
21	7	1967	0.0	21 0	-28 17.0	174 46.1	7537.8	5.9	272	50906.
21	7	1967	0.0	2246	-28 16.6	174 34.3	7548.2	6.9	269	50964.
22	7	1967	0.0	050	-28 16.9	174 18.1	7562.5	7.0	272	50964.
22	7	1967	0.0	051	-28 16.9	174 18.0	7562.6	7.4	271	51087.
22	7	1967	0.0	523	-28 16.2	173 39.6	7596.4	7.7	270	51141.
22	7	1967	0.0	711	-28 16.2	173 23.8	7610.3	7.8	272	51188.
22	7	1967	0.0	853	-28 15.8	173 8.7	7623.6	8.5	272	51231.
22	7	1967	0.0	1020	-28 15.4	172 54.8	7635.9	8.6	272	51241.
22	7	1967	0.0	1041	-28 15.3	172 51.3	7639.0	7.2	281	51243.
22	7	1967	0.0	1050	-28 15.1	172 50.2	7640.0	5.6	285	51244.
22	7	1967	0.0	1053	-28 15.0	172 49.8	7640.3	1.9	30	51219.
22	7	1967	0.0	12 6	-28 13.0	172 51.1	7642.7	2.3	48	51183.
22	7	1967	0.0	1348	-28 10.4	172 54.4	7646.6	0.9	47	51159.
22	7	1967	0.0	1639	-28 8.7	172 56.5	7649.1	1.7	87	51158.
22	7	1967	0.0	1651	-28 8.7	172 56.9	7649.4	4.3	271	51162.
22	7	1967	0.0	17 7	-28 8.7	172 55.6	7650.5	8.3	266	51212.
22	7	1967	0.0	1827	-28 9.5	172 43.0	7661.6	9.1	268	51275.
22	7	1967	0.0	20 8	-28 10.0	172 25.8	7676.8	9.1	271	51336.
22	7	1967	0.0	22 2	-28 9.6	172 6.2	7694.1	10.5	269	51421.
23	7	1967	0.0	0 4	-28 10.0	171 41.9	7715.5	8.4	266	51481.
23	7	1967	0.0	141	-28 10.9	171 26.4	7729.2	9.7	268	51550.
23	7	1967	0.0	323	-28 11.6	171 7.7	7745.8	8.7	226	51559.
23	7	1967	0.0	330	-28 12.2	171 6.9	7746.7	5.7	226	51577.
23	7	1967	0.0	350	-28 13.5	171 5.3	7748.6	0.4	44	51574.
23	7	1967	0.0	438	-28 13.3	171 5.6	7748.9	0.9	10	51558.
23	7	1967	0.0	620	-28 11.8	171 5.9	7750.4	0.6	43	51541.
23	7	1967	0.0	9 7	-28 10.5	171 7.3	7752.2	5.5	267	51546.
23	7	1967	0.0	920	-28 10.6	171 5.9	7753.4	9.5	265	51571.
23	7	1967	0.0	955	-28 11.0	170 59.5	7759.1	9.9	264	51712.
23	7	1967	0.0	1257	-28 14.0	170 25.6	7789.1	10.3	264	51799.
23	7	1967	0.0	1443	-28 16.0	170 5.1	7807.2	10.5	266	51911.
23	7	1967	0.0	17 8	-28 17.8	169 36.4	7832.6	6.3	268	51920.
23	7	1967	0.0	1730	-28 17.9	169 33.8	7834.9	0.7	313	51919.
23	7	1967	0.0	1739	-28 17.8	169 33.7	7835.0	0.7	267	51938.
23	7	1967	0.0	2347	-28 18.1	169 28.8	7839.4	7.9	270	51942.
23	7	1967	0.0	2354	-28 18.1	169 27.6	7840.3	10.3	270	51965.
24	7	1967	0.0	030	-28 18.1	169 20.7	7846.5	9.7	270	51975.
24	7	1967	0.0	048	-28 18.1	169 17.4	7849.4	9.3	277	52014.
24	7	1967	0.0	234	-28 16.0	168 59.0	7865.7	10.0	271	52029.
24	7	1967	0.0	3 0	-28 15.9	168 54.1	7870.0	10.0	276	52050.
24	7	1967	0.0	345	-28 15.2	168 45.5	7877.6	7.0	276	52060.
24	7	1967	0.0	417	-28 14.8	168 41.4	7881.3	1.0	281	52062.
24	7	1967	0.0	532	-28 14.6	168 40.0	7882.5	0.4	231	52069.
24	7	1967	0.0	718	-28 15.1	168 39.3	7883.3	0.9	266	52076.
24	7	1967	0.0	9 0	-28 15.2	168 37.5	7884.9	0.2	314	52075.
24	7	1967	0.0	937	-28 15.1	168 37.4	7885.0	6.1	272	52084.
24	7	1967	0.0	10 2	-28 15.0	168 34.5	7887.6	10.3	271	52114.
24	7	1967	0.0	1052	-28 14.9	168 24.8	7896.1	10.7	271	52144.
24	7	1967	0.0	1140	-28 14.8	168 14.9	7904.8	6.1	272	52151.
24	7	1967	0.0	12 0	-28 14.7	168 12.6	7906.8	10.6	271	52154.
24	7	1967	0.0	12 6	-28 14.7	168 11.5	7907.8	10.4	271	52217.
24	7	1967	0.0	1350	-28 14.4	167 51.1	7925.8	10.8	270	52246.
24	7	1967	0.0	1436	-28 14.3	167 41.7	7934.1	6.8	271	52252.
24	7	1967	0.0	1450	-28 14.3	167 39.9	7935.7	0.8	275	52256.
24	7	1967	0.0	1646	-28 14.2	167 38.1	7937.3	0.8	266	52261.
24	7	1967	0.0	1815	-28 14.3	167 36.8	7938.4	3.3	269	52265.
24	7	1967	0.0	1832	-28 14.3	167 35.7	7939.4	2.2	287	52265.
24	7	1967	0.0	1841	-28 14.2	167 35.3	7939.7	5.5	277	52268.
24	7	1967	0.0	1853	-28 14.1	167 34.1	7940.8	9.5	274	52307.

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24	7	1967	0.0	2018	-28 13.2	167 18.9	7954.2	10.5	270	52374.
24	7	1967	0.0	22 6	-28 13.1	166 57.4	7973.2	9.6	271	52407.
24	7	1967	0.0	23 8	-28 12.9	166 46.1	7983.1	5.8	272	52415.
24	7	1967	0.0	2330	-28 12.8	166 43.7	7985.3	0.4	60	52408.
25	7	1967	0.0	139	-28 12.4	166 44.5	7986.1	0.6	49	52398.
25	7	1967	0.0	334	-28 11.7	166 45.4	7987.2	0.4	0	52393.
25	7	1967	0.0	443	-28 11.2	166 45.4	7987.7	0.9	55	52387.
25	7	1967	0.0	526	-28 10.8	166 46.0	7988.3	5.0	272	52397.
25	7	1967	0.0	6 3	-28 10.7	166 42.6	7991.4	9.3	269	52411.
25	7	1967	0.0	627	-28 10.8	166 38.3	7995.1	9.3	267	52543.
25	7	1967	0.0	957	-28 12.4	166 1.3	8027.8	10.1	270	52586.
25	7	1967	0.0	11 8	-28 12.5	165 47.8	8039.7	5.5	273	52589.
25	7	1967	0.0	1120	-28 12.4	165 46.5	8040.8	0.7	349	52580.
25	7	1967	0.0	1255	-28 11.4	165 46.3	8041.8	0.5	336	52573.
25	7	1967	0.0	1441	-28 10.6	165 45.9	8042.7	1.0	299	52568.
25	7	1967	0.0	1717	-28 9.4	165 43.4	8045.3	7.3	270	52572.
25	7	1967	0.0	1724	-28 9.3	165 42.3	8046.2	10.7	269	52581.
25	7	1967	0.0	1739	-28 9.4	165 39.3	8048.9	10.1	268	52605.
25	7	1967	0.0	1817	-28 9.6	165 32.2	8055.1	10.2	265	52659.
25	7	1967	0.0	1930	-28 10.6	165 18.1	8067.6	10.6	264	52746.
25	7	1967	0.0	2120	-28 12.6	164 56.3	8086.9	10.6	265	52777.
25	7	1967	0.0	22 1	-28 13.2	164 48.0	8094.2	6.7	267	52786.
25	7	1967	0.0	2220	-28 13.3	164 45.6	8096.3	0.8	298	52783.
26	7	1967	0.0	053	-28 12.4	164 43.7	8098.3	0.3	336	52779.
26	7	1967	0.0	232	-28 12.0	164 43.5	8098.7	0.8	294	52778.
26	7	1967	0.0	338	-28 11.7	164 42.6	8099.6	6.5	269	52793.
26	7	1967	0.0	416	-28 11.7	164 37.9	8103.7	10.7	268	52846.
26	7	1967	0.0	534	-28 12.2	164 22.2	8117.6	10.3	265	52926.
26	7	1967	0.0	722	-28 13.8	164 1.3	8136.0	10.4	265	52948.
26	7	1967	0.0	752	-28 14.2	163 55.4	8141.3	6.8	265	52957.
26	7	1967	0.0	810	-28 14.4	163 53.0	8143.4	0.5	248	52960.
26	7	1967	0.0	9 9	-28 14.6	163 52.5	8143.9	0.5	264	52964.
26	7	1967	0.0	11 4	-28 14.7	163 51.4	8144.8	0.8	322	52952.
26	7	1967	0.0	1339	-28 13.0	163 49.9	8147.0	6.9	275	52956.
26	7	1967	0.0	1352	-28 12.9	163 48.3	8148.4	6.9	265	52958.
26	7	1967	0.0	1356	-28 12.9	163 47.7	8148.9	10.4	267	53027.
26	7	1967	0.0	1536	-28 13.9	163 28.1	8166.2	9.9	268	53074.
26	7	1967	0.0	1652	-28 14.4	163 13.9	8178.7	11.3	269	53124.
26	7	1967	0.0	18 8	-28 14.5	162 57.5	8193.1	7.3	269	53132.
26	7	1967	0.0	1826	-28 14.6	162 55.1	8195.3	1.3	265	53133.
26	7	1967	0.0	1838	-28 14.6	162 54.8	8195.5	1.3	281	53136.
26	7	1967	0.0	2030	-28 14.1	162 52.0	8198.1	1.2	332	53115.
26	7	1967	0.0	23 5	-28 11.5	162 50.4	8201.0	6.7	279	53118.
26	7	1967	0.0	2321	-28 11.2	162 48.4	8202.8	10.6	275	53134.
26	7	1967	0.0	2357	-28 10.6	162 41.1	8209.3	9.9	270	53187.
27	7	1967	0.0	136	-28 10.5	162 22.7	8225.5	10.4	269	53208.
27	7	1967	0.0	210	-28 10.6	162 15.9	8231.5	10.6	256	53289.
27	7	1967	0.0	331	-28 14.1	162 0.3	8245.7	6.2	256	53302.
27	7	1967	0.0	353	-28 14.6	161 57.8	8247.9	10.8	256	53309.
27	7	1967	0.0	4 0	-28 15.0	161 56.4	8249.3	0.4	248	53315.
27	7	1967	0.0	630	-28 15.3	161 55.4	8250.2	0.1	180	53316.
27	7	1967	0.0	738	-28 15.4	161 55.4	8250.2	6.4	270	53321.
27	7	1967	0.0	753	-28 15.4	161 53.6	8251.8	10.0	270	53338.
27	7	1967	0.0	822	-28 15.4	161 48.1	8256.6	10.0	268	53402.
27	7	1967	0.0	10 9	-28 15.9	161 27.7	8274.6	10.0	269	53479.
27	7	1967	0.0	1220	-28 16.5	161 3.1	8296.3	5.9	268	53488.
27	7	1967	0.0	1246	-28 16.6	161 0.2	8298.9	0.3	174	53488.
27	7	1967	0.0	1253	-28 16.6	161 0.2	8298.9	1.5	233	53510.
27	7	1967	0.0	1438	-28 18.1	160 57.9	8301.4	0.3	195	53518.
27	7	1967	0.0	1710	-28 18.8	160 57.7	8302.2	6.1	271	53523.
27	7	1967	0.0	1726	-28 18.8	160 55.8	8303.8	10.0	273	53532.
27	7	1967	0.0	1746	-28 18.6	160 52.1	8307.1	9.5	271	53584.
27	7	1967	0.0	1932	-28 18.4	160 33.1	8323.8	9.8	276	53626.
27	7	1967	0.0	2132	-28 16.3	160 10.9	8343.5	9.7	277	53633.
27	7	1967	0.0	2153	-28 15.9	160 7.0	8346.9	5.6	278	53638.
27	7	1967	0.0	2218	-28 15.6	160 4.4	8349.2	0.4	50	53625.
28	7	1967	0.0	2 0	-28 14.6	160 5.6	8350.7	5.7	273	53629.
28	7	1967	0.0	215	-28 14.6	160 4.0	8352.1	9.7	271	53727.

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28	7	1967	0.0	543	-28 13.7	159 25.7	8385.9	9.8	270	53773.
28	7	1967	0.0	712	-28 13.6	159 9.1	8400.5	5.7	271	53777.
28	7	1967	0.0	727	-28 13.6	159 7.5	8401.9	7.0	265	53782.
28	7	1967	0.0	738	-28 13.7	159 6.1	8403.1	1.2	242	53798.
28	7	1967	0.0	922	-28 14.7	159 4.0	8405.3	0.6	257	53808.
28	7	1967	0.0	1230	-28 15.1	159 1.8	8407.3	6.7	269	53816.
28	7	1967	0.0	1251	-28 15.2	158 59.2	8409.6	10.6	269	53846.
28	7	1967	0.0	1343	-28 15.3	158 48.6	8418.9	10.0	270	53902.
28	7	1967	0.0	1532	-28 15.2	158 28.1	8436.9	10.3	269	53948.
28	7	1967	0.0	1653	-28 15.5	158 12.2	8450.9	6.1	268	53956.
28	7	1967	0.0	1715	-28 15.6	158 9.7	8453.1	0.3	229	53960.
28	7	1967	0.0	1841	-28 15.9	158 9.3	8453.6	1.1	296	53956.
28	7	1967	0.0	2039	-28 14.9	158 7.0	8455.9	0.4	46	53953.
28	7	1967	0.0	2141	-28 14.6	158 7.3	8456.2	5.8	273	53956.
28	7	1967	0.0	2156	-28 14.6	158 5.7	8457.7	9.7	272	53972.
28	7	1967	0.0	2234	-28 14.3	157 58.8	8463.7	9.7	273	54044.
29	7	1967	0.0	134	-28 12.6	157 25.9	8492.8	10.1	274	54054.
29	7	1967	0.0	2 2	-28 12.2	157 20.5	8497.5	7.3	276	54057.
29	7	1967	0.0	210	-28 12.1	157 19.4	8498.5	10.2	274	54067.
29	7	1967	0.0	238	-28 11.8	157 14.0	8503.3	5.7	277	54071.
29	7	1967	0.0	3 0	-28 11.6	157 11.7	8505.3	0.6	348	54052.
29	7	1967	0.0	634	-28 9.5	157 11.2	8507.4	0.4	10	54044.
29	7	1967	0.0	822	-28 8.8	157 11.3	8508.2	6.3	265	54049.
29	7	1967	0.0	834	-28 8.9	157 9.9	8509.5	5.8	263	54051.
29	7	1967	0.0	838	-28 9.0	157 9.4	8509.9	9.4	262	54122.
29	7	1967	0.0	1023	-28 11.2	156 51.0	8526.3	9.6	263	54187.
29	7	1967	0.0	12 1	-28 13.1	156 33.5	8541.8	5.7	265	54194.
29	7	1967	0.0	1221	-28 13.2	156 31.4	8543.7	0.5	40	54191.
29	7	1967	0.0	1255	-28 13.0	156 31.6	8544.0	1.0	46	54176.
29	7	1967	0.0	1436	-28 11.8	156 33.0	8545.7	0.7	24	54153.
29	7	1967	0.0	1755	-28 9.8	156 34.0	8547.9	1.5	73	54146.
29	7	1967	0.0	1842	-28 9.5	156 35.2	8549.0	8.5	264	54177.
29	7	1967	0.0	1936	-28 10.3	156 26.7	8556.6	9.3	262	54259.
29	7	1967	0.0	2138	-28 12.9	156 5.4	8575.6	9.8	261	54310.
29	7	1967	0.0	2250	-28 14.7	155 52.2	8587.3	0.2	111	54311.
30	7	1967	0.0	043	-28 14.8	155 52.6	8587.7	0.5	314	54307.
30	7	1967	0.0	234	-28 14.2	155 51.9	8588.6	0.0	349	54305.
30	7	1967	0.0	511	-28 14.1	155 51.9	8588.7	6.0	268	54310.
30	7	1967	0.0	526	-28 14.1	155 50.2	8590.2	9.9	268	54319.
30	7	1967	0.0	543	-28 14.2	155 47.0	8593.0	9.5	264	54386.
30	7	1967	0.0	730	-28 16.0	155 27.8	8610.0	10.9	267	54405.
30	7	1967	0.0	8 0	-28 16.2	155 21.6	8615.5	7.0	267	54412.
30	7	1967	0.0	818	-28 16.3	155 19.3	8617.5	0.9	262	54416.
30	7	1967	0.0	930	-28 16.5	155 18.0	8618.7	0.9	312	54399.
30	7	1967	0.0	1341	-28 14.0	155 14.8	8622.4	0.8	32	54393.
30	7	1967	0.0	1430	-28 13.4	155 15.2	8623.1	9.6	271	54431.
30	7	1967	0.0	16 0	-28 13.2	154 58.9	8637.4	9.7	266	54466.
30	7	1967	0.0	17 0	-28 13.9	154 48.0	8647.1	10.2	261	54474.
30	7	1967	0.0	1710	-28 14.2	154 46.0	8648.8	0.2	187	54476.
30	7	1967	0.0	1843	-28 14.4	154 46.0	8649.1	0.2	240	54479.
30	7	1967	0.0	2055	-28 14.6	154 45.6	8649.5	0.2	221	54483.
30	7	1967	0.0	2238	-28 14.9	154 45.3	8649.9	0.9	227	54488.
30	7	1967	0.0	2317	-28 15.3	154 44.8	8650.5	10.8	267	54549.
31	7	1967	0.0	056	-28 16.3	154 24.6	8668.3	6.3	264	54552.
31	7	1967	0.0	1 4	-28 16.4	154 23.7	8669.1	0.9	227	54557.
31	7	1967	0.0	139	-28 16.8	154 23.2	8669.7	2.1	170	54590.
31	7	1967	0.0	320	-28 20.2	154 23.9	8673.1	1.7	231	54613.
31	7	1967	0.0	455	-28 21.9	154 21.5	8675.8	1.5	229	54626.
31	7	1967	0.0	6 0	-28 22.9	154 20.2	8677.4	3.3	275	54628.
31	7	1967	0.0	617	-28 22.9	154 19.1	8678.3	10.6	291	54625.
31	7	1967	0.0	636	-28 21.7	154 15.6	8681.6	9.9	287	54623.
31	7	1967	0.0	731	-28 19.0	154 5.7	8690.8	8.7	355	54586.
31	7	1967	0.0	756	-28 15.3	154 5.3	8694.5	1.9	202	54602.
31	7	1967	0.0	843	-28 16.7	154 4.7	8695.9	1.7	197	54633.
31	7	1967	0.0	1030	-28 19.6	154 3.7	8699.0	0.7	198	54642.
31	7	1967	0.0	1138	-28 20.4	154 3.4	8699.8	2.0	303	54639.
31	7	1967	0.0	12 5	-28 19.9	154 2.6	8700.6	9.6	316	54587.
31	7	1967	0.0	13 5	-28 12.9	153 55.0	8710.3	10.8	317	54584.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
31	7	1967	0.0	13 8	-28 12.4	153 54.5	8711.0	7.7	286	54583.
31	7	1967	0.0	1345	-28 11.2	153 49.4	8715.7	0.7	197	54589.
31	7	1967	0.0	1434	-28 11.7	153 49.2	8716.2	0.8	258	54592.
31	7	1967	0.0	1516	-28 11.8	153 48.6	8716.8	3.3	282	54592.
31	7	1967	0.0	1530	-28 11.7	153 47.7	8717.6	9.2	91	54571.
31	7	1967	0.0	1623	-28 11.8	153 57.0	8725.8	9.0	91	54555.
31	7	1967	0.0	17 5	-28 11.9	154 4.0	8732.0	7.0	92	54541.
31	7	1967	0.0	1753	-28 12.1	154 10.5	8737.7	7.4	102	54532.
31	7	1967	0.0	1941	-28 14.8	154 25.3	8751.0	8.1	98	54507.
31	7	1967	0.0	2148	-28 17.1	154 44.6	8768.1	8.5	90	54478.
31	7	1967	0.0	23 0	-28 17.1	154 56.2	8778.4	8.5	90	54395.
1	8	1967	0.0	223	-28 17.2	155 29.0	8807.2	8.5	91	54334.
1	8	1967	0.0	5 0	-28 17.5	155 54.3	8829.5	4.2	307	54329.
1	8	1967	0.0	518	-28 16.7	155 53.1	8830.7	9.5	305	54313.
1	8	1967	0.0	548	-28 14.0	155 48.7	8835.5	9.3	306	54254.
1	8	1967	0.0	736	-28 4.2	155 33.3	8852.2	9.8	312	54160.
1	8	1967	0.0	939	-27 50.7	155 16.4	8872.4	9.1	305	54138.
1	8	1967	0.0	1021	-27 47.1	155 10.6	8878.6	9.1	303	54042.
1	8	1967	0.0	1343	-27 30.4	154 41.4	8909.4	9.7	299	53999.
1	8	1967	0.0	1527	-27 22.2	154 24.8	8926.3	9.7	299	53961.
1	8	1967	0.0	17 4	-27 14.7	154 9.3	8942.0	10.1	298	53943.
1	8	1967	0.0	1745	-27 11.4	154 2.4	8948.9	10.0	302	53879.
1	8	1967	0.0	1945	-27 0.6	153 43.4	8969.0	9.7	334	53799.
1	8	1967	0.0	2047	-26 51.7	153 38.5	8979.0	10.3	276	53835.
1	8	1967	0.0	23 0	-26 49.3	153 13.0	9001.8			53835.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
12	8	1967	0.0	642	-26 48.5	153 11.5	0.0	9.5	50	53755.
12	8	1967	0.0	725	-26 44.1	153 17.3	6.9	9.5	50	53695.
12	8	1967	0.0	8 0	-26 40.5	153 22.0	12.3	8.0	45	53647.
12	8	1967	0.0	822	-26 38.5	153 24.3	15.2	8.6	45	53621.
12	8	1967	0.0	828	-26 37.8	153 25.0	16.1	7.9	45	53612.
12	8	1967	0.0	841	-26 36.6	153 26.4	17.9	10.6	45	53596.
12	8	1967	0.0	923	-26 31.3	153 32.2	25.3	10.4	45	53527.
12	8	1967	0.0	946	-26 28.5	153 35.3	29.2	9.7	48	53491.
12	8	1967	0.0	1035	-26 23.3	153 41.8	37.0	10.3	48	53421.
12	8	1967	0.0	1057	-26 20.7	153 45.0	40.9	9.9	48	53387.
12	8	1967	0.0	1216	-26 12.0	153 55.8	53.9	6.7	49	53270.
12	8	1967	0.0	1224	-26 11.4	153 56.5	54.8	6.4	50	53262.
12	8	1967	0.0	1236	-26 10.6	153 57.6	56.0	6.2	45	53251.
12	8	1967	0.0	1241	-26 10.2	153 58.0	56.6	8.3	45	53246.
12	8	1967	0.0	13 5	-26 8.0	154 0.6	59.8	9.4	43	53216.
12	8	1967	0.0	1420	-25 59.4	154 9.5	71.6	9.8	44	53105.
12	8	1967	0.0	17 0	-25 40.4	154 29.6	97.7	9.6	44	52857.
12	8	1967	0.0	1918	-25 24.5	154 46.4	119.7	9.5	45	52649.
12	8	1967	0.0	21 0	-25 13.0	154 58.9	135.9	9.5	45	52497.
12	8	1967	0.0	21 4	-25 12.6	154 59.4	136.5	9.8	41	52491.
13	8	1967	0.0	120	-24 41.2	155 29.9	178.3	5.2	40	52082.
13	8	1967	0.0	135	-24 40.2	155 30.8	179.6	0.5	3	52069.
13	8	1967	0.0	2 8	-24 39.9	155 30.8	179.9	0.8	6	52067.
13	8	1967	0.0	3 0	-24 39.2	155 30.9	180.6	5.4	219	52059.
13	8	1967	0.0	315	-24 40.2	155 30.0	182.0	2.7	36	52072.
13	8	1967	0.0	324	-24 39.9	155 30.2	182.4	8.1	44	52068.
13	8	1967	0.0	335	-24 38.9	155 31.3	183.8	3.5	39	52054.
13	8	1967	0.0	345	-24 38.4	155 31.7	184.4	10.0	45	52048.
13	8	1967	0.0	630	-24 18.8	155 53.1	212.0	10.1	45	51786.
13	8	1967	0.0	855	-24 1.4	156 11.9	236.4	10.3	46	51553.
13	8	1967	0.0	920	-23 58.5	156 15.2	240.6	6.0	45	51513.
13	8	1967	0.0	923	-23 58.3	156 15.5	240.9	8.6	46	51511.
13	8	1967	0.0	1015	-23 53.0	156 21.4	248.5	11.1	46	51439.
13	8	1967	0.0	1022	-23 52.2	156 22.4	249.7	10.0	46	51428.
13	8	1967	0.0	1143	-23 42.7	156 33.1	263.3	10.4	47	51299.
13	8	1967	0.0	1330	-23 30.1	156 47.8	281.8	9.8	39	51125.
13	8	1967	0.0	1339	-23 28.9	156 48.8	283.3	10.5	356	51110.
13	8	1967	0.0	18 0	-22 43.3	156 45.7	329.1	10.3	356	50625.
13	8	1967	0.0	2016	-22 19.9	156 44.1	352.5	9.6	360	50375.
13	8	1967	0.0	2042	-22 15.7	156 44.1	356.7	10.0	16	50329.
13	8	1967	0.0	22 6	-22 2.3	156 48.1	370.6	9.8	11	50173.
13	8	1967	0.0	2212	-22 1.3	156 48.4	371.6	7.3	9	50161.
13	8	1967	0.0	2223	-21 59.9	156 48.6	373.0	9.8	355	50145.
13	8	1967	0.0	2334	-21 48.5	156 47.5	384.5	10.6	359	50023.
14	8	1967	0.0	111	-21 31.2	156 47.2	401.7	10.2	359	49836.
14	8	1967	0.0	130	-21 28.1	156 47.1	404.9	6.5	358	49801.
14	8	1967	0.0	150	-21 25.9	156 47.0	407.0	1.1	348	49778.
14	8	1967	0.0	3 5	-21 24.6	156 46.7	408.4	3.6	356	49764.
14	8	1967	0.0	324	-21 23.4	156 46.6	409.6	7.8	358	49751.
14	8	1967	0.0	339	-21 21.4	156 46.6	411.6	10.7	359	49730.
14	8	1967	0.0	7 0	-20 45.8	156 45.8	447.2	10.8	359	49340.
14	8	1967	0.0	8 9	-20 33.3	156 45.5	459.7	11.4	359	49202.
14	8	1967	0.0	955	-20 13.1	156 45.3	479.9	10.9	1	48979.
14	8	1967	0.0	11 9	-19 59.7	156 45.6	493.3	10.2	36	48830.
14	8	1967	0.0	1234	-19 48.1	156 54.5	507.7	10.5	39	48679.
14	8	1967	0.0	1420	-19 33.7	157 7.0	526.2	10.1	36	48489.
14	8	1967	0.0	15 0	-19 28.3	157 11.3	533.0	10.4	37	48418.
14	8	1967	0.0	19 0	-18 54.9	157 37.4	574.4	10.5	37	47982.
14	8	1967	0.0	1934	-18 50.2	157 41.1	580.4	10.6	33	47920.
14	8	1967	0.0	2116	-18 35.0	157 51.5	598.5	9.7	36	47726.
14	8	1967	0.0	2320	-18 18.8	158 3.8	618.4	9.5	36	47516.
15	8	1967	0.0	1 0	-18 5.9	158 13.7	634.3	10.3	62	47348.
15	8	1967	0.0	123	-18 4.2	158 17.2	638.2	6.0	60	47319.
15	8	1967	0.0	150	-18 2.8	158 19.7	640.9	0.5	313	47298.
15	8	1967	0.0	2 9	-18 2.7	158 19.6	641.1	0.7	293	47297.
15	8	1967	0.0	3 0	-18 2.5	158 19.0	641.6	2.2	51	47296.
15	8	1967	0.0	315	-18 2.1	158 19.5	642.2	1.5	45	47291.
15	8	1967	0.0	336	-18 1.8	158 19.9	642.7	9.6	61	47286.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
15	8	1967	0.0	720	-17 44.5	158 52.7	678.4	9.1	67	47012.
15	8	1967	0.0	9 4	-17 38.4	159 7.9	694.1	8.8	62	46906.
15	8	1967	0.0	10 0	-17 34.5	159 15.5	702.3	8.6	62	46844.
15	8	1967	0.0	1130	-17 28.5	159 27.4	715.2	8.3	62	46748.
15	8	1967	0.0	1143	-17 27.7	159 29.1	717.0	7.9	60	46734.
15	8	1967	0.0	1327	-17 20.8	159 41.6	730.8	7.9	62	46627.
15	8	1967	0.0	1530	-17 13.2	159 56.6	747.0	7.6	62	46504.
15	8	1967	0.0	17 0	-17 7.8	160 7.1	758.3	7.5	62	46418.
15	8	1967	0.0	1843	-17 1.6	160 19.0	771.3	7.3	65	46320.
15	8	1967	0.0	2027	-16 56.3	160 31.0	784.0	7.7	64	46230.
15	8	1967	0.0	21 8	-16 53.9	160 36.0	789.3	7.7	64	46192.
15	8	1967	0.0	2134	-16 52.5	160 39.0	792.5	7.3	64	46168.
15	8	1967	0.0	2327	-16 46.4	160 52.0	806.3	8.3	62	46068.
16	8	1967	0.0	045	-16 41.4	161 2.0	817.1	8.5	62	45988.
16	8	1967	0.0	1 4	-16 40.2	161 4.4	819.8	5.0	61	45968.
16	8	1967	0.0	111	-16 39.9	161 5.0	820.4	4.9	56	45963.
16	8	1967	0.0	119	-16 39.6	161 5.5	821.0	0.8	3	45958.
16	8	1967	0.0	236	-16 38.5	161 5.6	822.0	3.6	49	45947.
16	8	1967	0.0	254	-16 37.8	161 6.5	823.1	7.8	29	45936.
16	8	1967	0.0	3 7	-16 36.4	161 7.3	824.7	9.9	30	45919.
16	8	1967	0.0	5 0	-16 20.2	161 16.9	843.4	0.8	3	45716.
16	8	1967	0.0	538	-16 19.7	161 17.0	843.9	8.2	29	45711.
16	8	1967	0.0	6 0	-16 17.0	161 18.5	847.0	10.0	30	45678.
16	8	1967	0.0	816	-15 57.4	161 30.2	869.6	10.0	32	45433.
16	8	1967	0.0	10 0	-15 42.7	161 39.8	887.0	9.9	32	45247.
16	8	1967	0.0	1236	-15 20.8	161 54.0	912.7	10.1	32	44973.
16	8	1967	0.0	14 0	-15 8.8	162 1.8	926.9	10.2	32	44823.
16	8	1967	0.0	1422	-15 5.7	162 3.8	930.6	9.8	30	44784.
16	8	1967	0.0	18 0	-14 35.0	162 22.3	966.1	9.7	30	44405.
16	8	1967	0.0	1941	-14 20.8	162 30.8	982.5	9.6	30	44231.
16	8	1967	0.0	2132	-14 5.4	162 39.9	1000.2	9.0	27	44043.
16	8	1967	0.0	22 0	-14 1.7	162 41.8	1004.4	9.2	27	43998.
17	8	1967	0.0	1 6	-13 36.3	162 55.1	1032.9	6.1	24	43693.
17	8	1967	0.0	118	-13 35.1	162 55.6	1034.2	0.9	283	43680.
17	8	1967	0.0	2 2	-13 35.0	162 55.0	1034.8	1.2	307	43680.
17	8	1967	0.0	236	-13 34.6	162 54.4	1035.5	2.6	3	43677.
17	8	1967	0.0	253	-13 33.8	162 54.5	1036.3	7.1	22	43668.
17	8	1967	0.0	3 9	-13 32.0	162 55.2	1038.2	9.7	25	43648.
17	8	1967	0.0	7 0	-12 58.3	163 11.1	1075.3	9.6	25	43251.
17	8	1967	0.0	730	-12 53.9	163 13.2	1080.1	9.7	29	43200.
17	8	1967	0.0	11 0	-12 24.1	163 30.2	1114.2	9.7	29	42845.
17	8	1967	0.0	1323	-12 3.8	163 41.7	1137.5	9.7	30	42606.
17	8	1967	0.0	15 0	-11 50.3	163 49.6	1153.0	9.7	30	42447.
17	8	1967	0.0	1733	-11 28.8	164 2.2	1177.8	6.8	29	42195.
17	8	1967	0.0	1747	-11 27.4	164 3.0	1179.4	11.8	30	42179.
17	8	1967	0.0	1754	-11 26.2	164 3.8	1180.9	9.7	30	42164.
17	8	1967	0.0	18 0	-11 25.4	164 4.3	1181.8	6.5	29	42155.
17	8	1967	0.0	1813	-11 24.1	164 5.0	1183.2	9.3	30	42141.
17	8	1967	0.0	1853	-11 18.7	164 8.1	1189.5	8.6	30	42077.
17	8	1967	0.0	1917	-11 15.8	164 9.9	1192.8	9.4	31	42044.
17	8	1967	0.0	2043	-11 4.2	164 16.9	1206.3	9.5	34	41909.
17	8	1967	0.0	2211	-10 52.6	164 24.8	1220.3	9.9	210	41773.
17	8	1967	0.0	2322	-11 2.6	164 18.9	1231.8	10.5	209	41888.
18	8	1967	0.0	052	-11 16.4	164 11.2	1247.6	6.3	207	42047.
18	8	1967	0.0	1 4	-11 17.5	164 10.6	1248.9	5.6	215	42060.
18	8	1967	0.0	115	-11 18.4	164 10.0	1249.9	2.0	221	42070.
18	8	1967	0.0	150	-11 19.3	164 9.2	1251.1	0.4	259	42081.
18	8	1967	0.0	226	-11 19.3	164 9.0	1251.3	2.6	23	42082.
18	8	1967	0.0	248	-11 18.4	164 9.3	1252.3	7.7	9	42072.
18	8	1967	0.0	3 0	-11 16.9	164 9.6	1253.8	8.6	9	42056.
18	8	1967	0.0	316	-11 14.6	164 10.0	1256.1	5.0	8	42032.
18	8	1967	0.0	332	-11 13.3	164 10.2	1257.4	9.4	10	42018.
18	8	1967	0.0	345	-11 11.3	164 10.5	1259.5	7.2	9	41997.
18	8	1967	0.0	531	-10 58.8	164 12.5	1272.2	6.3	8	41865.
18	8	1967	0.0	538	-10 58.0	164 12.7	1273.0	7.4	9	41857.
18	8	1967	0.0	638	-10 50.8	164 13.8	1280.3	7.0	15	41781.
18	8	1967	0.0	822	-10 39.0	164 16.9	1292.4	7.7	10	41655.
18	8	1967	0.0	930	-10 30.4	164 18.5	1301.2	7.8	10	41564.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
18	8	1967	0.0	1035	-10 22.1	164 20.0	1309.6	7.5	10	41478.
18	8	1967	0.0	1142	-10 13.8	164 21.5	1318.1	7.4	10	41392.
18	8	1967	0.0	1353	-9 57.9	164 24.3	1334.2	8.1	10	41227.
18	8	1967	0.0	1430	-9 53.0	164 25.2	1339.2	7.4	10	41177.
18	8	1967	0.0	18 9	-9 26.5	164 30.0	1366.1	7.5	13	40906.
18	8	1967	0.0	1830	-9 24.0	164 30.5	1368.7	7.5	13	40880.
18	8	1967	0.0	1952	-9 14.0	164 32.8	1378.9	7.2	8	40778.
18	8	1967	0.0	21 0	-9 5.9	164 34.0	1387.0	7.9	9	40697.
19	8	1967	0.0	0 9	-8 41.3	164 37.7	1411.9	8.0	7	40452.
19	8	1967	0.0	111	-8 33.1	164 38.8	1420.2	0.7	291	40372.
19	8	1967	0.0	157	-8 32.9	164 38.3	1420.7	0.3	332	40371.
19	8	1967	0.0	420	-8 32.2	164 38.0	1421.5	7.7	10	40365.
19	8	1967	0.0	545	-8 21.5	164 40.0	1432.4	8.3	11	40259.
19	8	1967	0.0	734	-8 6.7	164 42.8	1447.5	7.7	10	40113.
19	8	1967	0.0	10 0	-7 48.1	164 46.1	1466.3	7.5	10	39933.
19	8	1967	0.0	1138	-7 36.1	164 48.2	1478.5	7.9	9	39817.
19	8	1967	0.0	1323	-7 22.4	164 50.4	1492.4	4.5	6	39687.
19	8	1967	0.0	1330	-7 21.9	164 50.4	1492.9	8.5	9	39682.
19	8	1967	0.0	1523	-7 6.1	164 53.0	1508.9	8.6	9	39533.
19	8	1967	0.0	19 6	-6 34.7	164 58.2	1540.7	8.4	7	39241.
19	8	1967	0.0	1910	-6 34.1	164 58.2	1541.4	8.6	7	39235.
19	8	1967	0.0	2053	-6 19.5	165 0.1	1556.1	8.4	9	39102.
19	8	1967	0.0	23 0	-6 1.9	165 2.9	1573.9	8.0	9	38943.
19	8	1967	0.0	2318	-5 59.5	165 3.2	1576.3	8.2	10	38921.
20	8	1967	0.0	046	-5 47.7	165 5.3	1588.3	6.8	10	38815.
20	8	1967	0.0	1 4	-5 45.7	165 5.7	1590.3	6.7	9	38797.
20	8	1967	0.0	1 5	-5 45.6	165 5.7	1590.4	0.3	236	38796.
20	8	1967	0.0	221	-5 45.8	165 5.4	1590.8	3.5	93	38799.
20	8	1967	0.0	250	-5 45.9	165 7.1	1592.5	0.3	236	38796.
20	8	1967	0.0	3 9	-5 46.0	165 7.0	1592.6	5.9	92	38797.
20	8	1967	0.0	646	-5 46.6	165 28.3	1613.8	6.3	90	38758.
20	8	1967	0.0	7 0	-5 46.6	165 29.8	1615.3	6.1	90	38755.
20	8	1967	0.0	834	-5 46.6	165 39.4	1624.9	6.4	92	38735.
20	8	1967	0.0	11 5	-5 47.2	165 55.6	1641.0	7.1	92	38706.
20	8	1967	0.0	1515	-5 48.0	166 25.5	1670.7	7.6	92	38651.
20	8	1967	0.0	1745	-5 48.6	166 44.6	1689.7	6.7	92	38616.
20	8	1967	0.0	1820	-5 48.7	166 48.5	1693.6	6.6	94	38609.
20	8	1967	0.0	1930	-5 49.2	166 56.2	1701.3	6.2	94	38597.
20	8	1967	0.0	20 6	-5 49.4	166 59.9	1705.0	6.4	93	38592.
20	8	1967	0.0	2330	-5 50.6	167 21.6	1726.6	6.4	93	38557.
21	8	1967	0.0	0 8	-5 50.9	167 25.6	1730.6	5.6	92	38550.
21	8	1967	0.0	1 0	-5 51.1	167 30.6	1735.6	0.4	228	38542.
21	8	1967	0.0	217	-5 51.4	167 30.2	1736.0	1.9	92	38545.
21	8	1967	0.0	230	-5 51.4	167 30.7	1736.5	4.7	88	38544.
21	8	1967	0.0	515	-5 50.9	167 43.8	1749.5	4.0	88	38513.
21	8	1967	0.0	521	-5 50.9	167 44.1	1749.9	4.8	88	38512.
21	8	1967	0.0	530	-5 50.8	167 44.9	1750.6	5.5	87	38510.
21	8	1967	0.0	6 0	-5 50.7	167 47.7	1753.4	5.9	82	38503.
21	8	1967	0.0	746	-5 49.2	167 58.0	1763.8	6.1	85	38469.
21	8	1967	0.0	930	-5 48.3	168 8.5	1774.3	6.1	85	38439.
21	8	1967	0.0	1134	-5 47.2	168 21.2	1786.9	6.2	86	38404.
21	8	1967	0.0	1323	-5 46.4	168 32.6	1798.3	5.7	87	38373.
21	8	1967	0.0	1330	-5 46.3	168 33.2	1799.0	5.6	87	38372.
21	8	1967	0.0	1630	-5 45.4	168 50.0	1815.7	5.2	87	38329.
21	8	1967	0.0	1916	-5 44.6	169 4.3	1829.9	6.0	90	38293.
21	8	1967	0.0	2030	-5 44.5	169 11.7	1837.3	6.8	89	38277.
22	8	1967	0.0	1 0	-5 44.0	169 42.5	1867.9	0.2	153	38209.
22	8	1967	0.0	224	-5 44.3	169 42.6	1868.2	5.2	87	38211.
22	8	1967	0.0	250	-5 44.2	169 44.8	1870.4	2.7	89	38205.
22	8	1967	0.0	257	-5 44.2	169 45.1	1870.7	6.0	87	38205.
22	8	1967	0.0	657	-5 42.9	170 9.2	1894.7	6.4	86	38144.
22	8	1967	0.0	1043	-5 41.4	170 33.4	1918.8	5.9	86	38081.
22	8	1967	0.0	11 0	-5 41.2	170 35.1	1920.5	6.3	86	38077.
22	8	1967	0.0	1230	-5 40.6	170 44.5	1929.9	6.4	87	38052.
22	8	1967	0.0	15 0	-5 39.6	171 0.4	1945.8	6.1	87	38011.
22	8	1967	0.0	1827	-5 38.4	171 21.5	1966.8	6.2	86	37958.
22	8	1967	0.0	19 7	-5 38.1	171 25.6	1970.8	6.4	86	37947.
22	8	1967	0.0	2016	-5 37.5	171 33.0	1978.3	6.4	85	37927.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
22	8	1967	0.0	23 0	-5 36.1	171 50.5	1995.7	7.0	85	37880.
23	8	1967	0.0	0 4	-5 35.5	171 57.9	2003.1	6.2	83	37860.
23	8	1967	0.0	046	-5 35.0	172 2.3	2007.5	0.6	284	37847.
23	8	1967	0.0	211	-5 34.8	172 1.5	2008.4	3.1	58	37847.
23	8	1967	0.0	230	-5 34.3	172 2.3	2009.3	5.8	61	37841.
23	8	1967	0.0	256	-5 33.1	172 4.5	2011.9	0.6	284	37827.
23	8	1967	0.0	4 0	-5 33.0	172 3.9	2012.5	6.2	62	37827.
23	8	1967	0.0	6 8	-5 26.7	172 15.6	2025.7	6.6	62	37754.
23	8	1967	0.0	753	-5 21.2	172 26.0	2037.4	6.8	63	37690.
23	8	1967	0.0	8 0	-5 20.9	172 26.7	2038.1	7.2	63	37686.
23	8	1967	0.0	1134	-5 9.4	172 49.5	2063.6	6.8	64	37551.
23	8	1967	0.0	12 0	-5 8.1	172 52.2	2066.6	6.8	86	37535.
23	8	1967	0.0	16 0	-5 6.4	173 19.3	2093.7	6.5	86	37468.
23	8	1967	0.0	1739	-5 5.7	173 30.1	2104.5	7.0	87	37441.
23	8	1967	0.0	1925	-5 5.1	173 42.5	2116.9	6.9	88	37412.
23	8	1967	0.0	20 0	-5 5.0	173 46.5	2120.8	7.3	88	37403.
23	8	1967	0.0	23 9	-5 4.2	174 9.7	2144.0	7.4	85	37351.
24	8	1967	0.0	030	-5 3.4	174 19.7	2154.0	0.3	46	37325.
24	8	1967	0.0	130	-5 3.1	174 20.0	2154.3	3.0	83	37323.
24	8	1967	0.0	154	-5 3.0	174 21.2	2155.5	6.7	85	37319.
24	8	1967	0.0	6 0	-5 0.6	174 48.7	2183.0	6.9	85	37247.
24	8	1967	0.0	7 6	-4 60.0	174 56.2	2190.5	6.5	86	37227.
24	8	1967	0.0	10 0	-4 58.5	175 15.2	2209.5	6.1	85	37179.
24	8	1967	0.0	1039	-4 58.2	175 19.2	2213.5	6.5	88	37169.
24	8	1967	0.0	14 0	-4 57.4	175 41.0	2235.3	6.3	88	37119.
24	8	1967	0.0	1727	-4 56.5	176 3.0	2257.1	6.8	42	37071.
24	8	1967	0.0	1838	-4 50.6	176 8.3	2265.1	6.3	36	37017.
24	8	1967	0.0	2130	-4 35.9	176 19.1	2283.3	6.7	36	36891.
24	8	1967	0.0	2216	-4 31.8	176 22.1	2288.4	7.0	38	36856.
25	8	1967	0.0	0 2	-4 22.0	176 29.8	2300.9	6.9	35	36773.
25	8	1967	0.0	015	-4 20.8	176 30.7	2302.4	0.5	293	36763.
25	8	1967	0.0	119	-4 20.6	176 30.2	2302.9	1.8	24	36762.
25	8	1967	0.0	137	-4 20.1	176 30.4	2303.4	6.1	35	36758.
25	8	1967	0.0	530	-4 0.6	176 43.8	2327.0	6.2	35	36600.
25	8	1967	0.0	618	-3 56.6	176 46.6	2332.0	6.0	38	36567.
25	8	1967	0.0	8 8	-3 47.9	176 53.4	2343.0	6.5	34	36496.
25	8	1967	0.0	930	-3 40.5	176 58.5	2351.9	6.3	34	36438.
25	8	1967	0.0	1136	-3 29.6	177 5.9	2365.1	6.3	34	36352.
25	8	1967	0.0	1330	-3 19.6	177 12.6	2377.1	6.1	34	36276.
25	8	1967	0.0	1730	-2 59.4	177 26.0	2401.4	6.2	34	36123.
25	8	1967	0.0	1752	-2 57.5	177 27.2	2403.6	6.0	32	36110.
25	8	1967	0.0	1938	-2 48.6	177 32.8	2414.1	5.5	29	36044.
25	8	1967	0.0	2130	-2 39.5	177 37.8	2424.5	6.1	30	35980.
26	8	1967	0.0	0 7	-2 25.9	177 45.8	2440.3	1.1	276	35884.
26	8	1967	0.0	124	-2 25.7	177 44.3	2441.7	2.4	19	35885.
26	8	1967	0.0	146	-2 24.9	177 44.6	2442.6	6.5	33	35880.
26	8	1967	0.0	530	-2 4.7	177 57.7	2466.7	6.2	31	35739.
26	8	1967	0.0	6 0	-2 2.0	177 59.3	2469.8	6.8	32	35721.
26	8	1967	0.0	716	-1 54.8	178 3.9	2478.4	7.0	30	35672.
26	8	1967	0.0	10 0	-1 38.2	178 13.6	2497.5	7.0	30	35563.
26	8	1967	0.0	1041	-1 34.1	178 16.0	2502.3	7.3	33	35536.
26	8	1967	0.0	12 0	-1 26.1	178 21.2	2511.9	7.0	39	35484.
26	8	1967	0.0	16 0	-1 4.4	178 39.0	2539.9	6.9	39	35340.
26	8	1967	0.0	17 4	0-58.8	178 43.7	2547.3	6.9	41	35304.
26	8	1967	0.0	1852	0-49.4	178 51.7	2559.6	7.1	39	35243.
26	8	1967	0.0	20 0	0-43.1	178 56.9	2567.8	7.1	39	35203.
26	8	1967	0.0	21 3	0-37.3	179 1.5	2575.2	6.9	39	35168.
26	8	1967	0.0	2357	0-21.6	179 14.1	2595.3	1.8	291	35072.
27	8	1967	0.0	056	0-20.9	179 12.4	2597.1	2.4	4	35071.
27	8	1967	0.0	111	0-20.3	179 12.4	2597.7	4.9	28	35068.
27	8	1967	0.0	139	0-18.3	179 13.5	2600.0	6.5	33	35057.
27	8	1967	0.0	535	0 2.9	179 27.5	2625.4	4.0	24	34936.
27	8	1967	0.0	549	0 3.7	179 27.8	2626.3	6.6	34	34932.
27	8	1967	0.0	627	0 7.2	179 30.2	2630.5	6.3	33	34913.
27	8	1967	0.0	946	0 24.7	179 41.3	2651.2	6.6	36	34818.
27	8	1967	0.0	10 0	0 26.0	179 42.2	2652.8	6.7	36	34812.
27	8	1967	0.0	1132	0 34.3	179 48.3	2663.1	6.8	31	34767.
27	8	1967	0.0	12 0	0 37.0	179 50.0	2666.3	6.8	34	34753.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
27	8	1967	0.0	16 0	0 59.4	-179 54.8	2693.3	6.6	34	34639.
27	8	1967	0.0	20 0	1 21.3	-179 40.3	2719.6	6.8	34	34533.
27	8	1967	0.0	23 2	1 38.4	-179 28.6	2740.3	6.6	35	34453.
28	8	1967	0.0	0 5	1 44.0	-179 24.6	2747.2	2.2	288	34427.
28	8	1967	0.0	137	1 45.0	-179 27.8	2750.6	4.8	36	34427.
28	8	1967	0.0	149	1 45.8	-179 27.2	2751.5	7.1	43	34423.
28	8	1967	0.0	536	2 5.3	-179 9.0	2778.2	6.7	45	34333.
28	8	1967	0.0	6 0	2 7.3	-179 7.0	2781.0	6.9	46	34324.
28	8	1967	0.0	730	2 14.5	-178 59.6	2791.4	7.3	46	34291.
28	8	1967	0.0	10 0	2 27.3	-178 46.5	2809.7	7.2	46	34234.
28	8	1967	0.0	14 0	2 47.4	-178 25.8	2838.5	7.2	46	34149.
28	8	1967	0.0	1713	3 3.6	-178 9.2	2861.7	7.4	47	34084.
28	8	1967	0.0	1826	3 9.7	-178 2.6	2870.7	7.5	38	34061.
28	8	1967	0.0	19 2	3 13.3	-177 59.8	2875.2	7.8	39	34048.
28	8	1967	0.0	22 6	3 31.8	-177 44.7	2899.1	7.7	41	33983.
28	8	1967	0.0	2230	3 34.2	-177 42.6	2902.2	7.9	40	33975.
28	8	1967	0.0	2341	3 41.3	-177 36.5	2911.6	1.3	287	33951.
28	8	1967	0.0	2357	3 41.4	-177 36.9	2912.0	1.1	287	33951.
29	8	1967	0.0	050	3 41.7	-177 37.8	2912.9	3.6	33	33950.
29	8	1967	0.0	1 8	3 42.6	-177 37.2	2914.0	3.0	98	33948.
29	8	1967	0.0	112	3 42.6	-177 36.9	2914.2	5.9	38	33948.
29	8	1967	0.0	127	3 43.7	-177 36.0	2915.7	7.8	40	33944.
29	8	1967	0.0	452	4 4.1	-177 18.8	2942.4	9.1	29	33879.
29	8	1967	0.0	530	4 9.2	-177 15.9	2948.2	9.0	29	33864.
29	8	1967	0.0	636	4 17.8	-177 11.1	2958.1	8.1	37	33840.
29	8	1967	0.0	930	4 36.5	-176 56.7	2981.6	7.3	36	33789.
29	8	1967	0.0	943	4 37.8	-176 55.8	2983.2	7.9	41	33785.
29	8	1967	0.0	1330	5 0.5	-176 36.1	3013.2	8.7	41	33726.
29	8	1967	0.0	1630	5 20.1	-176 18.8	3039.3	8.5	44	33680.
29	8	1967	0.0	1730	5 26.3	-176 12.9	3047.8	8.5	44	33666.
29	8	1967	0.0	1816	5 31.0	-176 8.4	3054.3	8.8	44	33656.
29	8	1967	0.0	2111	5 49.2	-175 50.3	3079.9	8.9	47	33618.
29	8	1967	0.0	2130	5 51.1	-175 48.3	3082.7	9.0	47	33614.
29	8	1967	0.0	2257	6 0.0	-175 38.7	3095.8	8.5	47	33597.
29	8	1967	0.0	2347	6 4.9	-175 33.5	3102.8	0.1	18	33588.
30	8	1967	0.0	1 5	6 5.0	-175 33.5	3102.9	5.6	40	33587.
30	8	1967	0.0	116	6 5.8	-175 32.8	3104.0	9.2	40	33586.
30	8	1967	0.0	4 4	6 25.5	-175 16.3	3129.7	8.7	47	33554.
30	8	1967	0.0	5 0	6 31.1	-175 10.3	3137.8	8.7	47	33545.
30	8	1967	0.0	548	6 35.8	-175 5.1	3144.8	8.9	43	33538.
30	8	1967	0.0	8 0	6 50.2	-174 51.7	3164.5	9.7	43	33518.
30	8	1967	0.0	10 0	7 4.5	-174 38.4	3183.8	9.4	43	33501.
30	8	1967	0.0	11 9	7 12.4	-174 31.0	3194.6	8.9	36	33493.
30	8	1967	0.0	12 0	7 18.6	-174 26.6	3202.2	8.6	36	33487.
30	8	1967	0.0	15 0	7 39.4	-174 11.4	3227.9	8.5	36	33469.
30	8	1967	0.0	1543	7 44.4	-174 7.8	3234.0	8.8	35	33466.
30	8	1967	0.0	1725	7 56.6	-173 59.2	3249.0	8.7	34	33458.
30	8	1967	0.0	19 0	8 8.1	-173 51.5	3262.7	8.7	34	33452.
30	8	1967	0.0	22 2	8 30.0	-173 36.7	3289.1	9.5	37	33444.
30	8	1967	0.0	2322	8 40.2	-173 29.0	3301.8	1.0	71	33442.
31	8	1967	0.0	050	8 40.7	-173 27.7	3303.2	5.1	78	33442.
31	8	1967	0.0	1 4	8 40.9	-173 26.5	3304.4	8.8	43	33442.
31	8	1967	0.0	4 4	9 0.1	-173 8.2	3330.8	8.1	44	33440.
31	8	1967	0.0	5 0	9 5.6	-173 2.9	3338.4	8.5	40	33441.
31	8	1967	0.0	715	9 20.2	-172 50.4	3357.5	8.5	40	33443.
31	8	1967	0.0	11 0	9 44.6	-172 29.4	3389.5	9.1	40	33451.
31	8	1967	0.0	1130	9 48.1	-172 26.4	3394.0	7.9	39	33452.
31	8	1967	0.0	15 0	10 9.5	-172 9.0	3421.5	7.8	39	33465.
31	8	1967	0.0	1620	10 17.6	-172 2.4	3431.8	7.6	39	33470.
31	8	1967	0.0	1639	10 19.5	-172 0.8	3434.3	7.8	38	33472.
31	8	1967	0.0	1830	10 30.8	-171 51.7	3448.7	7.4	37	33481.
31	8	1967	0.0	20 0	10 39.7	-171 45.0	3459.8	8.2	37	33489.
31	8	1967	0.0	21 8	10 47.1	-171 39.3	3469.1	7.4	35	33496.
31	8	1967	0.0	2349	11 3.4	-171 27.7	3489.0	1.2	253	33513.
1	9	1967	0.0	045	11 3.1	-171 28.7	3490.1	2.7	36	33512.
1	9	1967	0.0	1 5	11 3.8	-171 28.2	3491.0	7.5	43	33513.
1	9	1967	0.0	113	11 4.6	-171 27.5	3492.0	7.8	43	33514.
1	9	1967	0.0	4 9	11 21.3	-171 11.5	3515.0	7.6	42	33535.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
1	9	1967	0.0	5 0	11 26.0	-171 7.1	3521.3	7.5	42	33542.
1	9	1967	0.0	852	11 47.4	-170 47.4	3550.1	7.8	40	33573.
1	9	1967	0.0	9 0	11 48.2	-170 46.7	3551.2	7.5	40	33574.
1	9	1967	0.0	1036	11 57.4	-170 38.8	3563.2	7.9	42	33589.
1	9	1967	0.0	14 0	12 17.5	-170 20.3	3590.3	7.9	42	33624.
1	9	1967	0.0	1553	12 28.5	-170 10.1	3605.1	8.0	43	33645.
1	9	1967	0.0	17 0	12 34.9	-170 3.9	3613.9	8.0	43	33657.
1	9	1967	0.0	1738	12 38.6	-170 0.4	3618.9	7.9	44	33665.
1	9	1967	0.0	21 0	12 57.7	-169 41.3	3645.6	8.3	44	33706.
1	9	1967	0.0	22 0	13 3.7	-169 35.4	3653.9	8.3	45	33719.
1	9	1967	0.0	2321	13 11.6	-169 27.4	3665.0	0.6	257	33737.
2	9	1967	0.0	030	13 11.4	-169 28.1	3665.8	2.9	41	33736.
2	9	1967	0.0	047	13 12.0	-169 27.6	3666.6	5.3	44	33738.
2	9	1967	0.0	1 0	13 12.9	-169 26.7	3667.8	7.7	45	33740.
2	9	1967	0.0	5 0	13 34.7	-169 4.6	3698.4	7.6	45	33793.
2	9	1967	0.0	5 6	13 35.2	-169 4.1	3699.1	7.2	39	33795.
2	9	1967	0.0	9 0	13 56.8	-168 45.9	3727.0	7.0	39	33850.
2	9	1967	0.0	939	14 0.4	-168 42.9	3731.7	7.6	40	33859.
2	9	1967	0.0	13 0	14 19.8	-168 26.0	3757.1	7.4	40	33912.
2	9	1967	0.0	1652	14 41.5	-168 7.0	3785.5	8.0	40	33976.
2	9	1967	0.0	17 0	14 42.4	-168 6.2	3786.6	7.7	40	33978.
2	9	1967	0.0	21 0	15 6.0	-167 45.8	3817.5	7.7	40	34052.
2	9	1967	0.0	21 6	15 6.6	-167 45.3	3818.2	7.4	40	34053.
2	9	1967	0.0	23 5	15 17.8	-167 35.5	3832.8	0.9	309	34090.
3	9	1967	0.0	0 8	15 18.4	-167 36.3	3833.8	3.6	34	34091.
3	9	1967	0.0	038	15 19.9	-167 35.3	3835.6	5.1	38	34096.
3	9	1967	0.0	052	15 20.9	-167 34.5	3836.8	7.2	41	34099.
3	9	1967	0.0	420	15 39.9	-167 17.5	3861.9	6.8	41	34163.
3	9	1967	0.0	5 0	15 43.3	-167 14.3	3866.5	6.6	41	34175.
3	9	1967	0.0	6 8	15 48.9	-167 9.3	3873.9	6.9	43	34195.
3	9	1967	0.0	850	16 2.7	-166 56.1	3892.7	6.9	44	34246.
3	9	1967	0.0	9 0	16 3.6	-166 55.2	3893.9	6.3	44	34249.
3	9	1967	0.0	1039	16 11.1	-166 47.6	3904.3	6.5	45	34277.
3	9	1967	0.0	13 0	16 21.7	-166 36.4	3919.5	6.6	45	34319.
3	9	1967	0.0	16 2	16 35.8	-166 21.7	3939.4	6.4	46	34375.
3	9	1967	0.0	17 0	16 40.1	-166 17.0	3945.6	6.8	46	34393.
3	9	1967	0.0	1752	16 44.1	-166 12.7	3951.4	7.1	47	34409.
3	9	1967	0.0	2157	17 3.9	-165 50.2	3980.6	6.3	45	34494.
3	9	1967	0.0	23 5	17 8.8	-165 45.0	3987.7	1.5	52	34515.
4	9	1967	0.0	0 0	17 9.7	-165 43.8	3989.0	2.8	29	34519.
4	9	1967	0.0	035	17 11.1	-165 43.0	3990.6	4.4	33	34525.
4	9	1967	0.0	053	17 12.2	-165 42.3	3991.9	6.7	34	34529.
4	9	1967	0.0	332	17 27.0	-165 31.7	4009.8	7.1	35	34590.
4	9	1967	0.0	5 0	17 35.6	-165 25.5	4020.3	7.4	35	34625.
4	9	1967	0.0	516	17 37.2	-165 24.3	4022.3	7.5	35	34632.
4	9	1967	0.0	9 0	17 60.0	-165 7.3	4050.2	7.6	35	34731.
4	9	1967	0.0	938	18 3.9	-165 4.4	4055.0	7.6	35	34748.
4	9	1967	0.0	13 0	18 24.9	-164 48.8	4080.7	7.4	35	34843.
4	9	1967	0.0	1516	18 38.6	-164 38.6	4097.5	7.7	36	34906.
4	9	1967	0.0	17 0	18 49.4	-164 30.3	4110.9	8.1	37	34957.
4	9	1967	0.0	17 2	18 49.6	-164 30.1	4111.1	7.7	35	34958.
4	9	1967	0.0	21 0	19 14.6	-164 11.4	4141.7	7.9	35	35078.
4	9	1967	0.0	21 2	19 14.8	-164 11.2	4142.0	7.7	37	35079.
4	9	1967	0.0	23 2	19 27.0	-164 1.3	4157.3	0.6	227	35141.
5	9	1967	0.0	0 0	19 26.6	-164 1.8	4157.9	3.8	37	35139.
5	9	1967	0.0	039	19 28.6	-164 0.2	4160.4	5.5	37	35149.
5	9	1967	0.0	050	19 29.4	-163 59.6	4161.3	7.7	37	35153.
5	9	1967	0.0	243	19 40.9	-163 50.2	4175.8	7.3	39	35212.
5	9	1967	0.0	5 0	19 53.9	-163 39.1	4192.5	7.3	39	35281.
5	9	1967	0.0	616	20 1.1	-163 32.9	4201.8	8.2	32	35319.
5	9	1967	0.0	848	20 18.7	-163 21.3	4222.4	8.7	37	35411.
5	9	1967	0.0	9 0	20 20.1	-163 20.2	4224.2	8.5	37	35418.
5	9	1967	0.0	1034	20 30.7	-163 11.5	4237.5	7.8	40	35477.
5	9	1967	0.0	13 0	20 45.3	-162 58.6	4256.5	7.8	40	35560.
5	9	1967	0.0	1432	20 54.4	-162 50.5	4268.4	7.6	39	35613.
5	9	1967	0.0	1613	21 4.5	-162 41.8	4281.3	7.0	43	35671.
5	9	1967	0.0	17 0	21 8.5	-162 37.8	4286.8	7.2	43	35695.
5	9	1967	0.0	18 6	21 14.3	-162 32.1	4294.7	8.0	43	35731.

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5	9	1967	0.0	20 6	21 26.1	-162 20.1	4310.9	8.3	38	35804.
5	9	1967	0.0	21 0	21 31.9	-162 15.3	4318.2	8.5	38	35838.
5	9	1967	0.0	2153	21 37.8	-162 10.2	4325.8	8.0	33	35875.
5	9	1967	0.0	23 5	21 45.8	-162 4.6	4335.4	0.8	273	35922.
6	9	1967	0.0	0 0	21 45.9	-162 5.4	4336.1	3.7	13	35921.
6	9	1967	0.0	027	21 47.5	-162 4.9	4337.7	0.8	273	35929.
6	9	1967	0.0	041	21 47.5	-162 5.1	4337.9	5.9	18	35929.
6	9	1967	0.0	1 0	21 49.3	-162 4.5	4339.8	0.8	273	35938.
6	9	1967	0.0	210	21 49.3	-162 5.5	4340.7	4.2	15	35937.
6	9	1967	0.0	224	21 50.3	-162 5.3	4341.7	4.9	17	35942.
6	9	1967	0.0	233	21 50.9	-162 5.0	4342.4	7.2	19	35945.
6	9	1967	0.0	341	21 58.6	-162 2.2	4350.5	7.5	14	35988.
6	9	1967	0.0	453	22 7.2	-161 59.8	4359.4	1.4	291	36033.
6	9	1967	0.0	523	22 7.5	-162 0.5	4360.1	1.0	279	36033.
6	9	1967	0.0	526	22 7.5	-162 0.6	4360.2	7.5	23	36033.
6	9	1967	0.0	755	22 24.7	-161 52.7	4378.9	8.4	28	36131.
6	9	1967	0.0	10 9	22 41.2	-161 43.0	4397.6	6.4	40	36230.
6	9	1967	0.0	1527	23 7.4	-161 19.3	4431.7	5.7	42	36405.
6	9	1967	0.0	1550	23 9.0	-161 17.7	4433.9	6.1	31	36416.
6	9	1967	0.0	1713	23 16.3	-161 13.0	4442.4	6.1	33	36462.
6	9	1967	0.0	1911	23 26.4	-161 5.9	4454.4	6.3	29	36528.
6	9	1967	0.0	20 0	23 30.9	-161 3.2	4459.6	7.1	30	36557.
6	9	1967	0.0	2250	23 48.3	-160 52.3	4479.6	0.3	295	36670.
7	9	1967	0.0	013	23 48.5	-160 52.7	4480.0	1.8	54	36670.
7	9	1967	0.0	053	23 49.2	-160 51.7	4481.2	7.1	59	36676.
7	9	1967	0.0	438	24 2.8	-160 26.7	4507.7	7.5	57	36796.
7	9	1967	0.0	5 0	24 4.3	-160 24.2	4510.5	7.4	57	36810.
7	9	1967	0.0	7 2	24 12.5	-160 10.3	4525.6	7.5	59	36881.
7	9	1967	0.0	848	24 19.2	-159 57.9	4538.8	7.2	57	36943.
7	9	1967	0.0	850	24 19.4	-159 57.7	4539.0	7.4	57	36944.
7	9	1967	0.0	13 0	24 35.9	-159 29.2	4569.7	7.7	58	37093.
7	9	1967	0.0	1625	24 50.0	-159 4.8	4596.0	7.7	56	37223.
7	9	1967	0.0	17 0	24 52.5	-159 0.8	4600.4	7.8	56	37246.
7	9	1967	0.0	20 4	25 5.8	-158 39.1	4624.1	7.8	56	37369.
7	9	1967	0.0	2148	25 13.3	-158 26.8	4637.6	7.8	59	37439.
7	9	1967	0.0	2239	25 16.7	-158 20.5	4644.3	0.3	321	37473.
8	9	1967	0.0	0 6	25 17.1	-158 20.8	4644.7	3.8	59	37474.
8	9	1967	0.0	054	25 18.7	-158 17.9	4647.8	7.7	61	37490.
8	9	1967	0.0	2 2	25 22.9	-158 9.5	4656.4	7.5	59	37533.
8	9	1967	0.0	5 0	25 34.3	-157 48.6	4678.5	7.4	59	37648.
8	9	1967	0.0	534	25 36.5	-157 44.6	4682.7	7.1	61	37670.
8	9	1967	0.0	753	25 44.6	-157 28.5	4699.2	7.7	63	37755.
8	9	1967	0.0	9 0	25 48.5	-157 20.1	4707.8	7.9	63	37798.
8	9	1967	0.0	936	25 50.6	-157 15.5	4712.5	8.0	59	37822.
8	9	1967	0.0	13 0	26 4.7	-156 49.4	4739.8	8.1	59	37969.
8	9	1967	0.0	1353	26 8.4	-156 42.5	4747.0	7.8	57	38008.
8	9	1967	0.0	1538	26 15.7	-156 29.9	4760.5	8.0	62	38084.
8	9	1967	0.0	2052	26 35.3	-155 48.9	4802.2	7.2	62	38309.
8	9	1967	0.0	2216	26 40.1	-155 38.8	4812.3	0.7	256	38364.
8	9	1967	0.0	2251	26 40.0	-155 39.3	4812.7	2.2	66	38363.
8	9	1967	0.0	2345	26 40.8	-155 37.3	4814.7	4.0	67	38373.
9	9	1967	0.0	024	26 41.9	-155 34.6	4817.3	5.5	67	38386.
9	9	1967	0.0	042	26 42.5	-155 32.9	4818.9	7.8	67	38395.
9	9	1967	0.0	3 0	26 49.4	-155 14.3	4836.9	7.9	66	38486.
9	9	1967	0.0	5 0	26 56.0	-154 58.2	4852.7	7.9	66	38570.
9	9	1967	0.0	839	27 7.9	-154 28.5	4881.7	7.3	65	38726.
9	9	1967	0.0	843	27 8.1	-154 28.0	4882.2	8.0	68	38728.
9	9	1967	0.0	1452	27 26.9	-153 37.0	4931.2	8.1	67	38990.
9	9	1967	0.0	1635	27 32.3	-153 22.6	4945.1	8.1	67	39066.
9	9	1967	0.0	1639	27 32.5	-153 22.0	4945.7	7.8	65	39069.
9	9	1967	0.0	20 0	27 43.5	-152 55.3	4971.8	8.2	66	39219.
9	9	1967	0.0	2146	27 49.5	-152 40.3	4986.3	8.1	65	39302.
9	9	1967	0.0	22 0	27 50.4	-152 38.4	4988.2	0.5	3	39314.
9	9	1967	0.0	2324	27 51.0	-152 38.3	4988.9	3.3	58	39319.
10	9	1967	0.0	013	27 52.5	-152 35.8	4991.6	7.7	63	39336.
10	9	1967	0.0	2 9	27 59.3	-152 20.8	5006.5	8.0	62	39426.
10	9	1967	0.0	355	28 5.8	-152 6.6	5020.7	7.9	65	39513.
10	9	1967	0.0	4 0	28 6.1	-152 5.9	5021.3	8.1	65	39517.

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10	9	1967	0.0	746	28 19.2	-151 34.8	5051.7	8.3	64	39701.
10	9	1967	0.0	8 0	28 20.1	-151 32.8	5053.7	8.3	64	39713.
10	9	1967	0.0	12 0	28 34.7	-150 58.8	5087.0	8.1	64	39921.
10	9	1967	0.0	14 2	28 42.0	-150 42.0	5103.4	7.8	62	40024.
10	9	1967	0.0	1548	28 48.5	-150 28.1	5117.2	7.7	64	40115.
10	9	1967	0.0	16 0	28 49.2	-150 26.5	5118.7	8.0	64	40125.
10	9	1967	0.0	2048	29 5.8	-149 47.3	5156.9	7.7	66	40370.
10	9	1967	0.0	2150	29 9.0	-149 38.9	5164.8	0.1	173	40420.
10	9	1967	0.0	2311	29 8.9	-149 38.9	5164.9	3.3	70	40420.
11	9	1967	0.0	0 8	29 10.0	-149 35.6	5168.0	5.1	70	40438.
11	9	1967	0.0	022	29 10.4	-149 34.3	5169.2	7.2	69	40446.
11	9	1967	0.0	045	29 11.4	-149 31.3	5172.0	0.1	174	40463.
11	9	1967	0.0	122	29 11.4	-149 31.3	5172.1	0.1	226	40462.
11	9	1967	0.0	3 6	29 11.2	-149 31.5	5172.2	7.1	69	40461.
11	9	1967	0.0	657	29 20.9	-149 2.0	5199.7	7.7	68	40627.
11	9	1967	0.0	7 0	29 21.0	-149 1.7	5200.0	8.0	68	40630.
11	9	1967	0.0	839	29 26.1	-148 47.7	5213.2	7.9	66	40713.
11	9	1967	0.0	13 0	29 40.2	-148 11.9	5247.4	8.0	66	40938.
11	9	1967	0.0	1318	29 41.2	-148 9.4	5249.8	8.4	68	40954.
11	9	1967	0.0	1652	29 52.4	-147 37.3	5279.8	7.7	68	41148.
11	9	1967	0.0	17 0	29 52.8	-147 36.1	5280.9	7.8	68	41155.
11	9	1967	0.0	2146	30 6.8	-146 56.7	5317.8	0.2	2	41399.
11	9	1967	0.0	23 0	30 7.1	-146 56.7	5318.1	4.4	67	41401.
11	9	1967	0.0	2347	30 8.4	-146 53.0	5321.5	8.7	68	41424.
12	9	1967	0.0	218	30 16.7	-146 29.5	5343.5	8.6	66	41571.
12	9	1967	0.0	4 0	30 22.8	-146 14.0	5358.2	8.6	66	41673.
12	9	1967	0.0	4 6	30 23.2	-146 13.1	5359.0	8.3	64	41679.
12	9	1967	0.0	6 0	30 30.0	-145 56.5	5374.9	8.3	67	41792.
12	9	1967	0.0	748	30 35.8	-145 40.5	5389.8	8.3	65	41896.
12	9	1967	0.0	8 0	30 36.6	-145 38.8	5391.5	7.7	65	41908.
12	9	1967	0.0	936	30 41.7	-145 25.8	5403.8	7.7	68	41996.
12	9	1967	0.0	10 0	30 42.9	-145 22.5	5406.9	7.4	67	42017.
12	9	1967	0.0	11 0	30 45.7	-145 14.5	5414.3	7.8	68	42069.
12	9	1967	0.0	1633	31 2.2	-144 28.1	5457.4	8.4	68	42371.
12	9	1967	0.0	2152	31 19.2	-143 39.7	5502.2	0.5	274	42691.
12	9	1967	0.0	2310	31 19.3	-143 40.4	5502.8	3.8	66	42688.
13	9	1967	0.0	0 5	31 20.7	-143 36.7	5506.2	7.7	68	42714.
13	9	1967	0.0	130	31 24.8	-143 24.9	5517.1	7.4	69	42793.
13	9	1967	0.0	318	31 29.7	-143 10.4	5530.4	7.2	68	42888.
13	9	1967	0.0	4 0	31 31.6	-143 4.9	5535.5	7.3	68	42924.
13	9	1967	0.0	657	31 39.6	-142 41.3	5557.2	8.3	70	43081.
13	9	1967	0.0	8 0	31 42.6	-142 31.7	5565.9	8.0	70	43143.
13	9	1967	0.0	846	31 44.8	-142 24.9	5572.0	7.9	70	43187.
13	9	1967	0.0	12 0	31 53.7	-141 56.6	5597.6	7.9	70	43371.
13	9	1967	0.0	1327	31 57.7	-141 43.9	5609.1	7.7	69	43454.
13	9	1967	0.0	1511	32 2.5	-141 29.2	5622.5	7.5	68	43551.
13	9	1967	0.0	18 6	32 10.6	-141 5.3	5644.3	7.5	68	43715.
13	9	1967	0.0	1952	32 15.7	-140 50.7	5657.6	8.3	68	43815.
13	9	1967	0.0	2120	32 20.2	-140 37.3	5669.9	0.4	56	43907.
13	9	1967	0.0	2245	32 20.5	-140 36.7	5670.4	3.2	63	43912.
13	9	1967	0.0	2332	32 21.6	-140 34.1	5672.9	7.2	64	43932.
14	9	1967	0.0	041	32 25.3	-140 25.3	5681.2	7.6	65	43999.
14	9	1967	0.0	418	32 37.0	-139 55.6	5708.8	7.6	66	44219.
14	9	1967	0.0	6 0	32 42.3	-139 41.7	5721.7	6.9	66	44321.
14	9	1967	0.0	750	32 47.6	-139 28.0	5734.4	7.0	62	44422.
14	9	1967	0.0	10 0	32 54.6	-139 12.0	5749.5	6.9	62	44549.
14	9	1967	0.0	1239	33 3.1	-138 52.5	5768.0	7.2	63	44704.
14	9	1967	0.0	13 0	33 4.3	-138 49.9	5770.5	7.3	69	44724.
14	9	1967	0.0	1423	33 7.8	-138 38.6	5780.6	7.0	67	44802.
14	9	1967	0.0	1613	33 12.9	-138 24.6	5793.3	7.0	69	44904.
14	9	1967	0.0	17 0	33 14.8	-138 18.5	5798.8	7.1	69	44945.
14	9	1967	0.0	1711	33 15.3	-138 17.0	5800.1	7.0	73	44956.
14	9	1967	0.0	21 8	33 23.4	-137 45.5	5827.7	0.7	91	45156.
14	9	1967	0.0	2241	33 23.4	-137 44.2	5828.7	3.7	77	45161.
14	9	1967	0.0	2327	33 24.0	-137 40.9	5831.6	2.4	16	45180.
14	9	1967	0.0	2339	33 24.5	-137 40.7	5832.1	7.0	76	45185.
15	9	1967	0.0	139	33 27.9	-137 24.5	5846.0	7.5	73	45282.
15	9	1967	0.0	330	33 31.9	-137 8.7	5859.8	6.9	71	45382.

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15	9	1967	0.0	4 0	33 33.0	-137 4.8	5863.2	7.1	71	45408.
15	9	1967	0.0	5 6	33 35.5	-136 55.9	5871.0	6.8	74	45466.
15	9	1967	0.0	650	33 38.8	-136 42.3	5882.8	7.0	76	45552.
15	9	1967	0.0	8 0	33 40.9	-136 32.8	5891.0	6.9	76	45610.
15	9	1967	0.0	1153	33 47.5	-136 1.6	5917.8	7.0	78	45798.
15	9	1967	0.0	12 0	33 47.7	-136 0.7	5918.6	6.9	78	45804.
15	9	1967	0.0	1336	33 50.1	-135 47.7	5929.7	7.1	76	45878.
15	9	1967	0.0	1523	33 53.1	-135 32.7	5942.5	7.0	71	45968.
15	9	1967	0.0	16 0	33 54.5	-135 27.8	5946.7	7.2	72	46000.
15	9	1967	0.0	18 4	33 59.2	-135 10.9	5961.6	7.2	69	46113.
15	9	1967	0.0	1946	34 3.7	-134 56.8	5974.1	6.8	76	46213.
15	9	1967	0.0	21 0	34 5.6	-134 47.2	5982.2	0.3	130	46270.
16	9	1967	0.0	023	34 4.9	-134 46.1	5983.4	3.5	75	46268.
16	9	1967	0.0	052	34 5.3	-134 44.1	5985.1	3.6	67	46280.
16	9	1967	0.0	1 0	34 5.5	-134 43.6	5985.6	2.8	103	46284.
16	9	1967	0.0	241	34 4.4	-134 38.0	5990.4	3.0	94	46296.
16	9	1967	0.0	254	34 4.3	-134 37.2	5991.0	6.9	66	46299.
16	9	1967	0.0	557	34 13.0	-134 14.0	6012.1	7.2	65	46476.
16	9	1967	0.0	7 0	34 16.1	-134 5.7	6019.6	7.3	66	46540.
16	9	1967	0.0	748	34 18.5	-133 59.3	6025.4	7.2	69	46589.
16	9	1967	0.0	11 0	34 27.0	-133 33.0	6048.7	7.1	69	46777.
16	9	1967	0.0	1248	34 31.6	-133 18.7	6061.4	7.2	68	46880.
16	9	1967	0.0	1439	34 36.6	-133 3.6	6074.8	6.8	70	46991.
16	9	1967	0.0	15 0	34 37.5	-133 0.9	6077.1	7.2	70	47010.
16	9	1967	0.0	17 9	34 42.8	-132 43.2	6092.6	7.3	74	47134.
16	9	1967	0.0	1853	34 46.4	-132 28.4	6105.4	6.3	73	47229.
16	9	1967	0.0	2045	34 49.7	-132 14.8	6117.0	0.5	197	47317.
16	9	1967	0.0	2350	34 48.3	-132 15.3	6118.5	3.3	75	47302.
17	9	1967	0.0	0 4	34 48.5	-132 14.3	6119.3	2.8	65	47307.
17	9	1967	0.0	1 5	34 49.7	-132 11.2	6122.1	5.4	67	47332.
17	9	1967	0.0	150	34 51.3	-132 6.7	6126.1	5.1	62	47366.
17	9	1967	0.0	5 0	34 58.8	-131 49.4	6142.2	5.0	62	47510.
17	9	1967	0.0	648	35 3.0	-131 39.7	6151.1	5.4	66	47590.
17	9	1967	0.0	9 0	35 7.8	-131 26.3	6163.1	5.4	66	47692.
17	9	1967	0.0	10 0	35 10.0	-131 20.3	6168.5	5.3	66	47738.
17	9	1967	0.0	11 0	35 12.1	-131 14.4	6173.8	5.2	66	47783.
17	9	1967	0.0	12 0	35 14.2	-131 8.6	6179.0	5.5	70	47828.
17	9	1967	0.0	1346	35 17.6	-130 57.4	6188.7	5.2	74	47906.
17	9	1967	0.0	17 0	35 22.0	-130 37.7	6205.4	5.4	74	48031.
17	9	1967	0.0	18 6	35 23.6	-130 30.7	6211.3	5.1	73	48075.
17	9	1967	0.0	2050	35 27.7	-130 14.2	6225.3	1.0	228	48183.
17	9	1967	0.0	2316	35 26.1	-130 16.4	6227.7	0.7	231	48158.
18	9	1967	0.0	039	35 25.5	-130 17.3	6228.7	3.8	72	48149.
18	9	1967	0.0	1 0	35 25.9	-130 15.8	6230.0	3.3	65	48159.
18	9	1967	0.0	155	35 27.2	-130 12.3	6233.1	4.8	66	48186.
18	9	1967	0.0	248	35 28.9	-130 7.6	6237.3	5.0	68	48222.
18	9	1967	0.0	555	35 34.8	-129 49.9	6252.8	5.4	73	48352.
18	9	1967	0.0	650	35 36.2	-129 44.2	6257.7	6.2	73	48389.
18	9	1967	0.0	746	35 37.9	-129 37.3	6263.5	6.4	71	48434.
18	9	1967	0.0	11 0	35 44.8	-129 13.3	6284.2	6.3	71	48600.
18	9	1967	0.0	1116	35 45.3	-129 11.4	6285.8	6.6	72	48613.
18	9	1967	0.0	1257	35 48.6	-128 58.4	6296.9	6.4	72	48701.
18	9	1967	0.0	1446	35 52.4	-128 44.7	6308.6	6.3	73	48792.
18	9	1967	0.0	1520	35 53.4	-128 40.5	6312.1	5.2	74	48819.
18	9	1967	0.0	17 4	35 55.9	-128 29.8	6321.1	5.2	67	48887.
18	9	1967	0.0	19 0	35 59.8	-128 18.4	6331.1	4.9	67	48972.
18	9	1967	0.0	2020	36 2.3	-128 11.0	6337.7	0.4	271	49027.
18	9	1967	0.0	2348	36 2.3	-128 12.8	6339.1	1.7	270	49020.
19	9	1967	0.0	011	36 2.3	-128 13.7	6339.8	1.8	232	49017.
19	9	1967	0.0	052	36 1.5	-128 14.8	6341.0	4.2	78	49005.
19	9	1967	0.0	2 2	36 2.5	-128 8.9	6345.9	3.8	74	49039.
19	9	1967	0.0	5 0	36 5.6	-127 55.5	6357.1	3.4	73	49123.
19	9	1967	0.0	646	36 7.4	-127 48.4	6363.2	3.7	76	49169.
19	9	1967	0.0	9 0	36 9.4	-127 38.4	6371.5	4.0	75	49231.
19	9	1967	0.0	12 9	36 12.7	-127 23.3	6384.2	4.1	73	49325.
19	9	1967	0.0	13 0	36 13.8	-127 19.2	6387.6	4.7	65	49352.
19	9	1967	0.0	1357	36 15.6	-127 14.2	6392.0	4.7	63	49390.
19	9	1967	0.0	1611	36 20.4	-127 2.5	6402.6	5.0	56	49485.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
19	9	1967	0.0	1755	36 25.2	-126 53.6	6411.2	5.5	54	49568.
19	9	1967	0.0	1950	36 31.3	-126 43.0	6421.7	0.7	280	49672.
19	9	1967	0.0	2142	36 31.5	-126 44.6	6423.0	3.1	58	49667.
19	9	1967	0.0	2152	36 31.8	-126 44.1	6423.5	5.8	61	49672.
19	9	1967	0.0	2325	36 36.1	-126 34.2	6432.5	6.1	70	49755.
20	9	1967	0.0	1 9	36 39.8	-126 21.7	6443.2	5.8	72	49842.
20	9	1967	0.0	3 0	36 43.1	-126 9.1	6453.8	6.3	71	49926.
20	9	1967	0.0	550	36 48.9	-125 48.1	6471.7	6.7	74	50067.
20	9	1967	0.0	7 0	36 51.1	-125 38.6	6479.5	7.3	73	50127.
20	9	1967	0.0	739	36 52.5	-125 32.9	6484.3	7.2	68	50164.
20	9	1967	0.0	11 0	37 1.7	-125 4.9	6508.5	7.4	68	50367.
20	9	1967	0.0	1123	37 2.8	-125 1.6	6511.4	7.4	64	50392.
20	9	1967	0.0	13 8	37 8.4	-124 47.1	6524.2	7.6	67	50504.
20	9	1967	0.0	1435	37 12.7	-124 34.3	6535.2	7.9	73	50598.
20	9	1967	0.0	17 2	37 18.3	-124 11.1	6554.6	8.0	70	50746.
20	9	1967	0.0	18 0	37 21.0	-124 1.8	6562.4	8.2	70	50809.
20	9	1967	0.0	1850	37 23.2	-123 53.8	6569.2	7.4	72	50863.
20	9	1967	0.0	1948	37 25.5	-123 45.2	6576.4	0.7	244	50920.
20	9	1967	0.0	2111	37 25.1	-123 46.3	6577.3	3.5	72	50912.
20	9	1967	0.0	2238	37 26.7	-123 40.1	6582.4	3.4	69	50951.
21	9	1967	0.0	022	37 28.7	-123 33.3	6588.2	3.6	69	50999.
21	9	1967	0.0	211	37 31.1	-123 25.4	6594.9	3.3	72	51053.
21	9	1967	0.0	457	37 33.9	-123 14.4	6604.1	3.7	70	51124.
21	9	1967	0.0	536	37 34.7	-123 11.6	6606.4	5.3	66	51143.
21	9	1967	0.0	643	37 37.1	-123 4.8	6612.4	5.0	58	51194.
21	9	1967	0.0	745	37 39.8	-122 59.2	6617.6	5.2	64	51243.
21	9	1967	0.0	8 5	37 40.6	-122 57.2	6619.3	3.3	59	51258.
21	9	1967	0.0	9 0	37 42.2	-122 54.0	6622.3	3.0	63	51286.
21	9	1967	0.0	945	37 43.2	-122 51.5	6624.5	4.4	73	51306.
21	9	1967	0.0	10 9	37 43.7	-122 49.3	6626.3	4.0	98	51319.
21	9	1967	0.0	1023	37 43.6	-122 48.2	6627.2	4.3	85	51322.
21	9	1967	0.0	1058	37 43.8	-122 45.0	6629.7			51337.

ELTANIN CRUISE 31

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
15	11	1967	0.0	2336	37 46.2	-122 41.3	0.0	10.1	283	51376.
16	11	1967	0.0	0 6	37 47.3	-122 47.5	5.0	10.4	283	51363.
16	11	1967	0.0	018	37 47.8	-122 50.1	7.2	10.8	280	51357.
16	11	1967	0.0	027	37 48.1	-122 52.2	8.8	12.2	281	51352.
16	11	1967	0.0	050	37 48.9	-122 57.9	13.4	11.2	280	51337.
16	11	1967	0.0	054	37 49.1	-122 59.0	14.3	11.8	281	51335.
16	11	1967	0.0	141	37 50.8	-123 10.5	23.5	8.2	279	51306.
16	11	1967	0.0	155	37 51.1	-123 12.9	25.4	9.7	280	51299.
16	11	1967	0.0	157	37 51.2	-123 13.3	25.7	9.7	281	51298.
16	11	1967	0.0	239	37 52.4	-123 21.8	32.6	11.0	281	51277.
16	11	1967	0.0	3 9	37 53.5	-123 28.6	38.1	10.3	281	51260.
16	11	1967	0.0	325	37 54.0	-123 32.0	40.8	10.6	280	51252.
16	11	1967	0.0	350	37 54.7	-123 37.4	45.1	10.6	285	51238.
16	11	1967	0.0	421	37 56.1	-123 44.1	50.6	9.5	283	51225.
16	11	1967	0.0	635	38 0.8	-124 10.4	71.9	9.9	283	51165.
16	11	1967	0.0	657	38 1.6	-124 15.0	75.6	9.0	279	51155.
16	11	1967	0.0	7 0	38 1.7	-124 15.6	76.0	11.0	279	51153.
16	11	1967	0.0	720	38 2.3	-124 20.1	79.6	10.6	279	51141.
16	11	1967	0.0	838	38 4.5	-124 37.2	93.3	8.4	279	51094.
16	11	1967	0.0	930	38 5.6	-124 46.5	100.7	7.3	279	51068.
16	11	1967	0.0	10 8	38 6.3	-124 52.2	105.2	7.5	278	51052.
16	11	1967	0.0	1152	38 8.0	-125 8.7	118.3	8.3	215	51002.
16	11	1967	0.0	13 9	37 59.2	-125 16.6	129.1	8.3	217	50884.
16	11	1967	0.0	1415	37 52.0	-125 23.5	138.2	11.3	218	50786.
16	11	1967	0.0	1455	37 45.9	-125 29.4	145.8	10.9	218	50703.
16	11	1967	0.0	1523	37 42.0	-125 33.2	150.7	11.4	221	50649.
16	11	1967	0.0	1525	37 41.6	-125 33.7	151.2	10.9	223	50644.
16	11	1967	0.0	17 8	37 28.0	-125 49.5	169.7	11.0	221	50447.
16	11	1967	0.0	1855	37 13.2	-126 5.8	189.5	11.6	223	50234.
16	11	1967	0.0	1930	37 8.3	-126 11.6	196.2	12.4	223	50163.
16	11	1967	0.0	22 0	36 45.8	-126 38.1	227.1	0.2	79	49835.
16	11	1967	0.0	2239	36 45.8	-126 37.9	227.3	12.9	224	49836.
17	11	1967	0.0	1 6	36 23.3	-127 5.4	258.8	12.9	222	49503.
17	11	1967	0.0	141	36 17.6	-127 11.7	266.4	12.6	217	49421.
17	11	1967	0.0	154	36 15.4	-127 13.7	269.2	10.2	217	49391.
17	11	1967	0.0	230	36 10.5	-127 18.2	275.3	13.2	218	49324.
17	11	1967	0.0	253	36 6.4	-127 22.1	280.4	12.8	219	49268.
17	11	1967	0.0	425	35 51.2	-127 37.4	300.0	13.6	218	49055.
17	11	1967	0.0	430	35 50.4	-127 38.2	301.1	12.2	2	49044.
17	11	1967	0.0	447	35 53.8	-127 38.1	304.5	12.9	218	49078.
17	11	1967	0.0	6 6	35 40.5	-127 51.0	321.5	12.1	219	48894.
17	11	1967	0.0	9 0	35 13.3	-128 18.5	356.7	12.5	220	48513.
17	11	1967	0.0	13 0	34 34.8	-128 57.3	406.7	12.4	220	47976.
17	11	1967	0.0	14 0	34 25.2	-129 6.8	419.0	12.6	220	47843.
17	11	1967	0.0	1548	34 8.0	-129 24.5	441.6	12.2	218	47602.
17	11	1967	0.0	1616	34 3.5	-129 28.8	447.4	12.5	220	47541.
17	11	1967	0.0	18 6	33 45.9	-129 46.3	470.2	12.5	220	47297.
17	11	1967	0.0	1815	33 44.4	-129 47.8	472.2	11.0	220	47276.
17	11	1967	0.0	1845	33 40.2	-129 52.1	477.6	12.5	220	47218.
17	11	1967	0.0	2030	33 23.6	-130 9.1	499.5	12.6	220	46987.
17	11	1967	0.0	23 0	32 59.4	-130 33.5	531.1	12.8	220	46653.
18	11	1967	0.0	153	32 31.3	-131 1.8	568.0	12.8	220	46266.
18	11	1967	0.0	239	32 23.8	-131 9.3	577.8	12.4	214	46164.
18	11	1967	0.0	341	32 13.3	-131 17.9	590.6	12.0	213	46028.
18	11	1967	0.0	424	32 6.1	-131 23.5	599.2	12.3	217	45936.
18	11	1967	0.0	516	31 57.6	-131 30.9	609.7	12.6	221	45825.
18	11	1967	0.0	524	31 56.3	-131 32.3	611.5	11.8	126	45807.
18	11	1967	0.0	545	31 53.9	-131 28.4	615.6	10.8	165	45799.
18	11	1967	0.0	6 0	31 51.3	-131 27.6	618.3	13.4	225	45777.
18	11	1967	0.0	620	31 48.1	-131 31.2	622.7	9.0	200	45733.
18	11	1967	0.0	627	31 47.1	-131 31.7	623.8	0.8	336	45720.
18	11	1967	0.0	633	31 47.2	-131 31.7	623.9	4.4	294	45721.
18	11	1967	0.0	638	31 47.3	-131 32.1	624.2	0.8	338	45721.
18	11	1967	0.0	641	31 47.3	-131 32.1	624.3	4.2	311	45721.
18	11	1967	0.0	7 4	31 48.4	-131 33.5	625.8	3.1	306	45726.
18	11	1967	0.0	9 0	31 51.9	-131 39.2	631.9	8.7	216	45738.
18	11	1967	0.0	915	31 50.2	-131 40.7	634.1	12.6	216	45715.
18	11	1967	0.0	10 9	31 41.0	-131 48.8	645.5	12.4	215	45595.

ELTANIN CRUISE 31

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
18	11	1967	0.0	1016	31 39.8	-131 49.7	646.9	11.7	176	45580.
18	11	1967	0.0	1030	31 37.1	-131 49.4	649.6	12.6	217	45555.
18	11	1967	0.0	13 9	31 10.2	-132 13.0	683.2	12.4	217	45206.
18	11	1967	0.0	1430	30 57.0	-132 24.9	699.9	12.5	218	45034.
18	11	1967	0.0	1455	30 52.8	-132 28.6	705.1	12.6	218	44979.
18	11	1967	0.0	1545	30 44.6	-132 36.1	715.6	12.7	220	44872.
18	11	1967	0.0	1718	30 29.5	-132 50.8	735.3	13.0	218	44673.
18	11	1967	0.0	19 0	30 12.1	-133 6.7	757.4	13.0	222	44449.
18	11	1967	0.0	1941	30 5.4	-133 13.5	766.3	13.4	220	44360.
18	11	1967	0.0	21 4	29 51.4	-133 27.3	784.8	7.0	219	44176.
18	11	1967	0.0	2118	29 50.1	-133 28.5	786.4	0.4	160	44160.
18	11	1967	0.0	2213	29 49.7	-133 28.4	786.8	8.7	215	44157.
18	11	1967	0.0	2237	29 46.9	-133 30.6	790.2	13.3	215	44122.
18	11	1967	0.0	2316	29 39.8	-133 36.4	798.9	12.9	216	44034.
19	11	1967	0.0	1 6	29 20.8	-133 52.4	822.5	13.0	216	43798.
19	11	1967	0.0	246	29 3.1	-134 7.1	844.4	13.0	215	43580.
19	11	1967	0.0	3 0	29 0.6	-134 9.1	847.4	13.1	220	43550.
19	11	1967	0.0	425	28 46.4	-134 22.8	866.0	12.8	221	43369.
19	11	1967	0.0	5 5	28 40.1	-134 29.1	874.4	13.5	156	43288.
19	11	1967	0.0	513	28 38.3	-134 28.2	876.3	12.8	166	43275.
19	11	1967	0.0	530	28 34.8	-134 27.2	879.9	13.0	197	43247.
19	11	1967	0.0	613	28 25.8	-134 30.3	889.3	12.7	197	43154.
19	11	1967	0.0	634	28 21.7	-134 31.7	893.6	12.2	208	43111.
19	11	1967	0.0	645	28 19.7	-134 33.0	895.9	12.6	225	43088.
19	11	1967	0.0	738	28 11.9	-134 41.8	906.9	12.7	222	42986.
19	11	1967	0.0	922	27 55.5	-134 58.7	929.0	13.2	224	42778.
19	11	1967	0.0	11 0	27 40.0	-135 15.8	950.7	13.4	224	42578.
19	11	1967	0.0	1111	27 38.2	-135 17.8	953.2	12.7	224	42555.
19	11	1967	0.0	14 0	27 12.5	-135 45.5	988.9	12.5	224	42229.
19	11	1967	0.0	15 0	27 3.5	-135 55.3	1001.4	12.6	224	42116.
19	11	1967	0.0	1548	26 56.2	-136 3.1	1011.4	12.4	222	42025.
19	11	1967	0.0	1623	26 50.8	-136 8.6	1018.8	12.4	222	41959.
19	11	1967	0.0	1811	26 34.2	-136 25.3	1041.1	12.3	224	41757.
19	11	1967	0.0	2030	26 13.9	-136 47.5	1069.5	6.7	224	41508.
19	11	1967	0.0	2039	26 13.2	-136 48.3	1070.5	8.2	230	41498.
19	11	1967	0.0	2048	26 12.4	-136 49.3	1071.7	13.8	228	41489.
19	11	1967	0.0	21 0	26 10.6	-136 51.6	1074.5	0.9	283	41465.
19	11	1967	0.0	2152	26 10.7	-136 52.4	1075.2	8.7	225	41464.
19	11	1967	0.0	22 8	26 9.1	-136 54.3	1077.5	13.5	223	41444.
19	11	1967	0.0	2227	26 5.9	-136 57.7	1082.0	12.7	220	41405.
20	11	1967	0.0	150	25 33.2	-137 28.2	1124.7	12.5	219	41027.
20	11	1967	0.0	2 0	25 31.5	-137 29.7	1126.8	12.6	219	41008.
20	11	1967	0.0	338	25 15.5	-137 44.0	1147.4	13.0	220	40828.
20	11	1967	0.0	5 4	25 1.1	-137 57.2	1166.1	8.4	220	40666.
20	11	1967	0.0	523	24 59.1	-137 59.1	1168.7	0.2	54	40644.
20	11	1967	0.0	545	24 59.2	-137 59.0	1168.8	5.4	14	40644.
20	11	1967	0.0	620	25 2.2	-137 58.2	1171.9	0.2	54	40672.
20	11	1967	0.0	754	25 2.4	-137 57.9	1172.3	8.7	220	40675.
20	11	1967	0.0	811	25 0.5	-137 59.6	1174.7	13.3	220	40654.
20	11	1967	0.0	836	24 56.4	-138 3.4	1180.1	13.1	218	40608.
20	11	1967	0.0	1022	24 38.0	-138 19.0	1203.3	13.1	217	40408.
20	11	1967	0.0	12 0	24 20.9	-138 33.3	1224.8	13.1	217	40225.
20	11	1967	0.0	13 8	24 9.2	-138 43.1	1239.6	12.9	219	40099.
20	11	1967	0.0	1455	23 51.2	-138 59.1	1262.8	13.0	220	39907.
20	11	1967	0.0	1712	23 28.6	-139 20.0	1292.3	4.7	220	39667.
20	11	1967	0.0	1713	23 28.6	-139 20.0	1292.4	5.7	210	39666.
20	11	1967	0.0	1718	23 28.2	-139 20.3	1292.8	13.7	216	39662.
20	11	1967	0.0	1957	22 58.7	-139 43.4	1329.2	8.2	213	39365.
20	11	1967	0.0	20 6	22 57.7	-139 44.1	1330.4	14.0	216	39356.
20	11	1967	0.0	21 8	22 46.0	-139 53.3	1344.9	1.1	148	39239.
20	11	1967	0.0	2130	22 45.7	-139 53.1	1345.3	2.9	11	39237.
20	11	1967	0.0	2157	22 47.0	-139 52.8	1346.6	3.9	313	39248.
20	11	1967	0.0	2338	22 51.4	-139 58.0	1353.1	1.1	148	39267.
20	11	1967	0.0	2353	22 51.1	-139 57.9	1353.3	3.9	203	39266.
21	11	1967	0.0	0 6	22 50.4	-139 58.2	1354.1	5.0	158	39259.
21	11	1967	0.0	025	22 48.9	-139 57.5	1355.8	10.3	214	39249.
21	11	1967	0.0	042	22 46.5	-139 59.3	1358.7	13.4	216	39226.
21	11	1967	0.0	241	22 24.9	-140 16.1	1385.2	12.0	217	39015.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
21	11	1967	0.0	436	22 6.7	-140 31.1	1408.1	12.5	218	38837.
21	11	1967	0.0	5 0	22 2.7	-140 34.5	1413.2	12.8	218	38798.
21	11	1967	0.0	623	21 48.8	-140 46.4	1431.0	12.8	219	38662.
21	11	1967	0.0	9 0	21 22.8	-141 8.8	1464.3	13.0	219	38413.
21	11	1967	0.0	938	21 16.5	-141 14.3	1472.4	13.2	217	38353.
21	11	1967	0.0	13 0	20 40.8	-141 42.9	1517.0	13.2	217	38026.
21	11	1967	0.0	14 0	20 30.3	-141 51.4	1530.2	13.2	218	37931.
21	11	1967	0.0	1548	20 11.7	-142 7.1	1553.9	12.7	219	37764.
21	11	1967	0.0	16 0	20 9.7	-142 8.8	1556.5	12.6	223	37746.
21	11	1967	0.0	18 9	19 49.8	-142 28.5	1583.6	12.9	224	37564.
21	11	1967	0.0	2055	19 24.4	-142 54.9	1619.2	13.2	223	37332.
21	11	1967	0.0	21 0	19 23.6	-142 55.6	1620.2	8.5	222	37326.
21	11	1967	0.0	21 8	19 22.8	-142 56.4	1621.3	0.4	86	37319.
21	11	1967	0.0	2217	19 22.8	-142 56.0	1621.7	7.7	222	37320.
21	11	1967	0.0	2226	19 21.8	-142 57.0	1623.2	13.1	223	37310.
22	11	1967	0.0	230	18 43.2	-143 35.0	1675.9	13.1	223	36976.
22	11	1967	0.0	334	18 32.9	-143 45.1	1689.9	13.5	225	36889.
22	11	1967	0.0	449	18 21.1	-143 57.7	1706.7	12.7	201	36788.
22	11	1967	0.0	454	18 20.0	-143 58.1	1707.9	13.4	225	36780.
22	11	1967	0.0	515	18 16.7	-144 1.6	1712.5	10.1	226	36753.
22	11	1967	0.0	522	18 16.0	-144 2.4	1713.6	0.3	305	36747.
22	11	1967	0.0	6 0	18 16.1	-144 2.6	1713.8	3.8	347	36747.
22	11	1967	0.0	739	18 22.1	-144 4.1	1720.0	7.4	217	36782.
22	11	1967	0.0	843	18 15.8	-144 9.1	1728.0	7.2	216	36732.
22	11	1967	0.0	9 0	18 14.2	-144 10.3	1730.0	13.2	216	36719.
22	11	1967	0.0	1027	17 58.7	-144 22.1	1749.1	12.7	216	36600.
22	11	1967	0.0	1245	17 35.1	-144 40.2	1778.3	9.2	217	36421.
22	11	1967	0.0	13 9	17 32.1	-144 42.6	1782.1	9.7	213	36399.
22	11	1967	0.0	1321	17 30.6	-144 43.6	1783.9	13.2	214	36388.
22	11	1967	0.0	1453	17 13.6	-144 55.4	1804.3	13.2	216	36265.
22	11	1967	0.0	1730	16 45.6	-145 16.4	1838.7	13.0	213	36064.
22	11	1967	0.0	21 0	16 7.3	-145 42.0	1884.2	7.9	213	35805.
22	11	1967	0.0	2118	16 5.3	-145 43.3	1886.6	0.2	357	35792.
22	11	1967	0.0	2223	16 5.6	-145 43.3	1886.8	13.2	213	35793.
23	11	1967	0.0	230	15 19.7	-146 13.8	1941.2	13.2	216	35499.
23	11	1967	0.0	239	15 18.1	-146 15.0	1943.3	13.2	210	35488.
23	11	1967	0.0	441	14 54.9	-146 29.0	1970.1	12.8	210	35348.
23	11	1967	0.0	6 0	14 40.2	-146 37.6	1986.9	12.7	211	35261.
23	11	1967	0.0	625	14 35.6	-146 40.4	1992.3	13.3	214	35234.
23	11	1967	0.0	9 0	14 7.4	-147 0.4	2026.5	13.1	216	35068.
23	11	1967	0.0	938	14 0.8	-147 5.4	2034.7	12.7	215	35030.
23	11	1967	0.0	1130	13 41.4	-147 19.5	2058.5	12.8	215	34920.
23	11	1967	0.0	13 0	13 25.8	-147 31.0	2077.7	12.8	216	34834.
23	11	1967	0.0	14 0	13 15.3	-147 38.6	2090.5	12.8	216	34777.
23	11	1967	0.0	1548	12 56.7	-147 52.6	2113.5	13.1	217	34679.
23	11	1967	0.0	1615	12 52.0	-147 56.3	2119.5	13.1	219	34654.
23	11	1967	0.0	2111	12 2.1	-148 38.1	2184.0	8.1	219	34402.
23	11	1967	0.0	2127	12 0.4	-148 39.5	2186.1	0.3	82	34394.
23	11	1967	0.0	2132	12 0.4	-148 39.5	2186.2	4.5	118	34394.
23	11	1967	0.0	2222	11 58.6	-148 36.1	2189.9	8.6	215	34390.
23	11	1967	0.0	23 2	11 53.9	-148 39.5	2195.7	12.8	215	34368.
24	11	1967	0.0	141	11 26.1	-148 59.5	2229.8	0.2	82	34242.
24	11	1967	0.0	147	11 26.1	-148 59.5	2229.8	5.7	214	34242.
24	11	1967	0.0	157	11 25.3	-149 0.1	2230.8	12.6	215	34239.
24	11	1967	0.0	220	11 21.4	-149 2.9	2235.5	8.3	215	34222.
24	11	1967	0.0	341	11 12.1	-149 9.4	2246.8	12.3	215	34182.
24	11	1967	0.0	5 8	10 57.7	-149 19.8	2264.4	5.7	158	34121.
24	11	1967	0.0	516	10 57.0	-149 19.5	2265.2	5.6	90	34118.
24	11	1967	0.0	541	10 57.0	-149 17.1	2267.6	6.3	91	34120.
24	11	1967	0.0	552	10 57.0	-149 16.0	2268.7	4.4	91	34121.
24	11	1967	0.0	743	10 56.8	-149 7.6	2276.9	7.5	214	34128.
24	11	1967	0.0	754	10 55.7	-149 8.4	2278.3	12.0	217	34123.
24	11	1967	0.0	813	10 52.7	-149 10.7	2282.0	13.5	168	34110.
24	11	1967	0.0	838	10 47.1	-149 9.5	2287.7	12.4	219	34092.
24	11	1967	0.0	13 0	10 4.8	-149 44.0	2341.9	12.5	219	33923.
24	11	1967	0.0	1453	9 46.3	-149 59.0	2365.6	12.2	218	33855.
24	11	1967	0.0	1641	9 29.1	-150 12.8	2387.6	12.1	218	33794.
24	11	1967	0.0	1730	9 21.3	-150 18.9	2397.4	11.7	226	33768.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
24	11	1967	0.0	2117	8 50.8	-150 51.3	2441.6	6.0	223	33666.
24	11	1967	0.0	2135	8 49.5	-150 52.5	2443.4	11.5	226	33661.
24	11	1967	0.0	22 4	8 45.6	-150 56.6	2449.0	4.8	123	33649.
24	11	1967	0.0	2248	8 43.7	-150 53.7	2452.5	5.5	210	33646.
24	11	1967	0.0	23 3	8 42.5	-150 54.4	2453.8	11.8	215	33642.
25	11	1967	0.0	232	8 9.0	-151 18.5	2495.0	11.4	211	33549.
25	11	1967	0.0	3 0	8 4.4	-151 21.3	2500.3	11.4	214	33537.
25	11	1967	0.0	420	7 51.8	-151 29.8	2515.5	11.1	215	33506.
25	11	1967	0.0	452	7 47.0	-151 33.2	2521.4	11.3	218	33494.
25	11	1967	0.0	520	7 42.8	-151 36.5	2526.7	11.3	223	33484.
25	11	1967	0.0	638	7 32.0	-151 46.6	2541.4	11.3	224	33458.
25	11	1967	0.0	9 0	7 12.8	-152 5.5	2568.2	11.3	224	33415.
25	11	1967	0.0	950	7 6.1	-152 12.0	2577.6	11.6	228	33401.
25	11	1967	0.0	12 0	6 49.1	-152 30.8	2602.8	11.5	221	33367.
25	11	1967	0.0	16 0	6 14.6	-153 1.0	2648.6	11.4	221	33310.
25	11	1967	0.0	20 4	5 39.6	-153 31.5	2694.9	7.7	221	33264.
25	11	1967	0.0	2033	5 36.8	-153 34.0	2698.6	11.3	221	33261.
25	11	1967	0.0	2130	5 28.6	-153 41.2	2709.4	6.3	222	33253.
25	11	1967	0.0	2150	5 27.1	-153 42.5	2711.5	10.5	221	33251.
25	11	1967	0.0	2156	5 26.2	-153 43.3	2712.6	6.0	68	33250.
25	11	1967	0.0	2241	5 27.9	-153 39.1	2717.1	6.2	224	33252.
25	11	1967	0.0	2252	5 27.1	-153 39.9	2718.2	11.8	223	33251.
26	11	1967	0.0	3 0	4 51.5	-154 13.4	2766.9	12.3	223	33223.
26	11	1967	0.0	533	4 28.6	-154 34.9	2798.3	7.0	224	33212.
26	11	1967	0.0	542	4 27.9	-154 35.6	2799.4	1.4	32	33212.
26	11	1967	0.0	6 5	4 28.3	-154 35.4	2799.9	5.0	30	33212.
26	11	1967	0.0	815	4 37.6	-154 29.9	2810.7	10.6	221	33216.
26	11	1967	0.0	912	4 29.9	-154 36.6	2820.8	11.4	207	33213.
26	11	1967	0.0	923	4 28.0	-154 37.6	2822.9	11.8	219	33212.
26	11	1967	0.0	1046	4 15.4	-154 47.7	2839.1	11.9	219	33209.
26	11	1967	0.0	1330	3 50.3	-155 8.3	2871.6	11.9	219	33207.
26	11	1967	0.0	1453	3 37.5	-155 18.8	2888.1	12.5	217	33208.
26	11	1967	0.0	1654	3 17.4	-155 33.8	2913.2	12.4	229	33213.
26	11	1967	0.0	22 0	2 36.4	-156 21.8	2976.2	7.5	229	33246.
26	11	1967	0.0	22 7	2 35.9	-156 22.4	2977.0	5.3	93	33246.
26	11	1967	0.0	2253	2 35.7	-156 18.3	2981.0	5.7	213	33244.
26	11	1967	0.0	2257	2 35.3	-156 18.6	2981.5	12.4	215	33244.
27	11	1967	0.0	322	1 50.4	-156 49.6	3036.0	13.0	229	33291.
27	11	1967	0.0	416	1 42.8	-156 58.6	3047.8	12.9	229	33303.
27	11	1967	0.0	425	1 41.5	-157 0.1	3049.8	12.1	214	33305.
27	11	1967	0.0	435	1 39.9	-157 1.2	3051.7	12.2	177	33307.
27	11	1967	0.0	6 0	1 22.6	-157 0.2	3069.1	13.2	208	33324.
27	11	1967	0.0	635	1 15.9	-157 3.8	3076.7	11.3	168	33334.
27	11	1967	0.0	639	1 15.0	-157 3.6	3077.6	12.4	208	33335.
27	11	1967	0.0	641	1 14.6	-157 3.8	3078.0	12.9	209	33335.
27	11	1967	0.0	957	0 37.8	-157 24.3	3120.1	12.6	207	33397.
27	11	1967	0.0	11 0	0 26.0	-157 30.2	3133.3	12.9	207	33419.
27	11	1967	0.0	15 0	0-20.0	-157 53.7	3184.9	12.8	207	33519.
27	11	1967	0.0	18 0	0-54.2	-158 11.1	3223.4	13.1	207	33606.
27	11	1967	0.0	2120	-1 33.1	-158 31.0	3267.0	4.8	69	33719.
27	11	1967	0.0	22 5	-1 31.8	-158 27.6	3270.6	12.8	207	33712.
27	11	1967	0.0	23 0	-1 42.3	-158 32.9	3282.4	13.1	228	33745.
27	11	1967	0.0	2345	-1 48.9	-158 40.2	3292.2	13.0	207	33770.
28	11	1967	0.0	320	-2 30.3	-159 1.4	3338.7	13.3	208	33913.
28	11	1967	0.0	4 0	-2 38.2	-159 5.6	3347.6	13.3	208	33943.
28	11	1967	0.0	555	-3 0.7	-159 17.8	3373.3	13.5	210	34030.
28	11	1967	0.0	6 9	-3 3.5	-159 19.4	3376.4	4.1	22	34041.
28	11	1967	0.0	834	-2 54.4	-159 15.7	3386.2	13.2	216	34006.
28	11	1967	0.0	13 0	-3 42.0	-159 50.2	3445.0	13.3	216	34216.
28	11	1967	0.0	1639	-4 21.3	-160 18.8	3493.6	13.1	215	34407.
28	11	1967	0.0	1748	-4 33.5	-160 27.5	3508.6	13.1	219	34470.
28	11	1967	0.0	1913	-4 47.9	-160 39.3	3527.2	13.1	220	34548.
28	11	1967	0.0	2225	-5 20.0	-161 6.4	3569.1	3.9	60	34731.
28	11	1967	0.0	23 8	-5 18.7	-161 4.0	3571.9	13.3	220	34721.
29	11	1967	0.0	349	-6 6.2	-161 44.2	3634.0	13.4	216	35012.
29	11	1967	0.0	8 0	-6 51.6	-162 17.4	3690.1	13.4	216	35302.
29	11	1967	0.0	1354	-7 55.4	-163 4.1	3769.0	7.3	216	35746.
29	11	1967	0.0	14 9	-7 56.9	-163 5.2	3770.8	13.4	216	35757.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
29	11	1967	0.0	1546	-8 14.3	-163 18.0	3792.4	13.1	213	35885.
29	11	1967	0.0	1723	-8 32.0	-163 29.6	3813.4	12.8	224	36015.
29	11	1967	0.0	22 7	-9 15.4	-164 12.6	3874.2	13.1	233	36378.
29	11	1967	0.0	2230	-9 18.5	-164 16.7	3879.3	7.6	231	36407.
29	11	1967	0.0	2242	-9 19.5	-164 17.9	3880.8	4.9	70	36416.
29	11	1967	0.0	23 0	-9 19.0	-164 16.5	3882.3	0.9	87	36410.
29	11	1967	0.0	2311	-9 19.0	-164 16.3	3882.5	3.7	348	36409.
29	11	1967	0.0	2326	-9 18.1	-164 16.5	3883.4	6.6	231	36404.
29	11	1967	0.0	2339	-9 19.0	-164 17.7	3884.8	12.8	225	36412.
30	11	1967	0.0	3 0	-9 48.9	-164 48.5	3927.5	12.9	225	36678.
30	11	1967	0.0	6 5	-10 16.9	-165 17.3	3967.4	4.3	8	36934.
30	11	1967	0.0	8 0	-10 8.7	-165 16.1	3975.6	0.9	87	36875.
30	11	1967	0.0	820	-10 8.7	-165 15.8	3975.9	5.3	220	36874.
30	11	1967	0.0	835	-10 9.8	-165 16.7	3977.2	12.6	233	36883.
30	11	1967	0.0	1027	-10 24.1	-165 35.8	4000.9	6.8	231	37027.
30	11	1967	0.0	1038	-10 24.8	-165 36.7	4002.1	12.8	233	37034.
30	11	1967	0.0	1445	-10 56.8	-166 19.6	4055.0	13.1	210	37364.
30	11	1967	0.0	19 0	-11 45.1	-166 47.7	4110.6	12.9	210	37791.
30	11	1967	0.0	2241	-12 26.3	-167 11.7	4158.0	12.5	214	38170.
30	11	1967	0.0	23 3	-12 30.0	-167 14.3	4162.5	7.9	215	38205.
30	11	1967	0.0	2318	-12 31.6	-167 15.5	4164.5	3.5	151	38221.
1	12	1967	0.0	0 2	-12 33.9	-167 14.2	4167.1	11.4	214	38236.
1	12	1967	0.0	154	-12 51.5	-167 26.4	4188.4	13.5	275	38408.
1	12	1967	0.0	223	-12 51.0	-167 33.1	4194.9	12.9	270	38421.
1	12	1967	0.0	245	-12 51.0	-167 37.9	4199.6	7.9	269	38433.
1	12	1967	0.0	3 0	-12 51.0	-167 39.9	4201.5	12.6	270	38439.
1	12	1967	0.0	4 4	-12 51.1	-167 53.7	4215.0	13.2	272	38476.
1	12	1967	0.0	633	-12 50.2	-168 27.4	4247.9	7.7	233	38558.
1	12	1967	0.0	652	-12 51.7	-168 29.4	4250.3	4.1	242	38575.
1	12	1967	0.0	843	-12 55.3	-168 36.2	4257.9	4.2	238	38622.
1	12	1967	0.0	856	-12 55.8	-168 37.0	4258.8	0.4	119	38628.
1	12	1967	0.0	9 0	-12 55.8	-168 37.0	4258.8	7.6	274	38628.
1	12	1967	0.0	938	-12 55.4	-168 42.0	4263.7	13.2	274	38639.
1	12	1967	0.0	1013	-12 54.9	-168 49.8	4271.3	12.9	273	38655.
1	12	1967	0.0	12 0	-12 53.5	-169 13.2	4294.2	12.9	274	38707.
1	12	1967	0.0	13 0	-12 52.7	-169 26.5	4307.1	13.0	274	38735.
1	12	1967	0.0	1548	-12 50.4	-170 3.7	4343.4	12.9	274	38816.
1	12	1967	0.0	17 0	-12 49.4	-170 19.5	4358.9	12.7	274	38851.
1	12	1967	0.0	1827	-12 48.3	-170 38.4	4377.4	12.6	274	38892.
1	12	1967	0.0	21 0	-12 46.1	-171 11.2	4409.4	12.6	274	38963.
1	12	1967	0.0	22 2	-12 45.2	-171 24.5	4422.4	13.7	277	38991.
1	12	1967	0.0	23 0	-12 43.6	-171 38.0	4435.7	8.4	278	39014.
1	12	1967	0.0	2320	-12 43.2	-171 40.8	4438.4	3.6	141	39018.
1	12	1967	0.0	2346	-12 44.4	-171 39.8	4440.0	4.6	140	39026.
1	12	1967	0.0	2358	-12 45.1	-171 39.2	4440.9	6.7	268	39030.
2	12	1967	0.0	012	-12 45.2	-171 40.8	4442.5	12.9	269	39035.
2	12	1967	0.0	1 2	-12 45.4	-171 51.7	4453.2	11.6	269	39066.
2	12	1967	0.0	3 0	-12 45.9	-172 15.1	4476.0	11.8	223	39134.
2	12	1967	0.0	6 6	-13 12.3	-172 40.7	4512.4	11.4	225	39431.
2	12	1967	0.0	645	-13 17.6	-172 46.1	4519.8	11.2	229	39491.
2	12	1967	0.0	750	-13 25.5	-172 55.4	4531.9	6.6	228	39586.
2	12	1967	0.0	812	-13 27.2	-172 57.3	4534.3	3.6	255	39606.
2	12	1967	0.0	935	-13 28.5	-173 2.3	4539.3	3.0	294	39631.
2	12	1967	0.0	1020	-13 27.6	-173 4.4	4541.5	6.4	223	39629.
2	12	1967	0.0	1039	-13 29.1	-173 5.8	4543.7	11.4	224	39647.
2	12	1967	0.0	1457	-14 4.4	-173 40.5	4592.4	11.5	223	40057.
2	12	1967	0.0	15 0	-14 4.8	-173 40.9	4593.0	11.5	223	40062.
2	12	1967	0.0	1918	-14 40.8	-174 15.9	4642.4	11.1	224	40487.
2	12	1967	0.0	2039	-14 51.7	-174 26.7	4657.5	10.6	226	40619.
2	12	1967	0.0	2253	-15 8.3	-174 44.3	4681.3	11.3	227	40824.
2	12	1967	0.0	23 6	-15 9.9	-174 46.0	4683.6	7.2	227	40844.
2	12	1967	0.0	2318	-15 10.9	-174 47.1	4685.0	0.2	51	40856.
3	12	1967	0.0	0 2	-15 10.8	-174 47.0	4685.1	8.1	227	40855.
3	12	1967	0.0	024	-15 12.9	-174 49.3	4688.2	11.2	227	40881.
3	12	1967	0.0	242	-15 30.4	-175 8.7	4713.8	10.8	133	41102.
3	12	1967	0.0	4 2	-15 40.2	-174 57.9	4728.2	10.3	133	41161.
3	12	1967	0.0	550	-15 52.9	-174 43.9	4746.7	10.9	133	41237.
3	12	1967	0.0	617	-15 56.3	-174 40.1	4751.6	9.7	121	41256.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
3	12	1967	0.0	653	-15 59.2	-174 35.0	4757.4	7.0	120	41268.
3	12	1967	0.0	7 6	-16 0.0	-174 33.6	4758.9	0.2	66	41271.
3	12	1967	0.0	1020	-15 59.7	-174 32.8	4759.7	0.9	326	41266.
3	12	1967	0.0	1033	-15 59.5	-174 33.0	4759.9	7.3	39	41265.
3	12	1967	0.0	1042	-15 58.6	-174 32.2	4761.0	9.1	117	41254.
3	12	1967	0.0	12 9	-16 4.7	-174 20.0	4774.3	9.1	122	41273.
3	12	1967	0.0	1224	-16 6.0	-174 18.0	4776.6	9.4	46	41279.
3	12	1967	0.0	1338	-15 58.1	-174 9.3	4788.0	9.3	49	41179.
3	12	1967	0.0	1450	-15 50.7	-174 0.6	4799.2	10.2	51	41083.
3	12	1967	0.0	1543	-15 45.0	-173 53.3	4808.2	9.9	51	41008.
3	12	1967	0.0	16 7	-15 42.6	-173 50.1	4812.1	9.3	90	40977.
3	12	1967	0.0	18 5	-15 42.7	-173 31.1	4830.4	10.6	90	40919.
3	12	1967	0.0	1827	-15 42.7	-173 27.0	4834.4	11.1	93	40907.
3	12	1967	0.0	1834	-15 42.7	-173 25.7	4835.6	10.7	44	40904.
3	12	1967	0.0	1849	-15 40.8	-173 23.8	4838.3	11.2	38	40880.
3	12	1967	0.0	1931	-15 34.6	-173 18.8	4846.2	11.2	33	40808.
3	12	1967	0.0	23 0	-15 2.0	-172 56.4	4885.2	7.6	33	40445.
3	12	1967	0.0	2353	-14 56.3	-172 52.6	4892.0	8.2	33	40382.
4	12	1967	0.0	1 9	-14 47.7	-172 46.7	4902.4	9.1	44	40287.
4	12	1967	0.0	3 9	-14 34.5	-172 33.7	4920.6	9.0	42	40131.
4	12	1967	0.0	453	-14 22.9	-172 22.8	4936.3	8.4	45	39996.
4	12	1967	0.0	5 7	-14 21.6	-172 21.5	4938.1	0.1	65	39981.
4	12	1967	0.0	9 0	-14 21.4	-172 21.0	4938.6	5.9	46	39977.
4	12	1967	0.0	920	-14 20.0	-172 19.5	4940.6	12.3	45	39961.
4	12	1967	0.0	11 8	-14 4.4	-172 3.3	4962.7	11.3	106	39778.
4	12	1967	0.0	14 0	-14 13.1	-171 31.1	4995.1	11.1	109	39762.
4	12	1967	0.0	1638	-14 22.8	-171 2.8	5024.3	10.5	114	39765.
4	12	1967	0.0	1722	-14 25.9	-170 55.5	5032.0	11.6	105	39771.
4	12	1967	0.0	1742	-14 26.9	-170 51.5	5035.9	10.1	109	39769.
4	12	1967	0.0	1751	-14 27.4	-170 50.2	5037.4	6.5	111	39769.
4	12	1967	0.0	18 8	-14 28.1	-170 48.4	5039.2	9.0	110	39769.
4	12	1967	0.0	1817	-14 28.5	-170 47.0	5040.6	12.2	43	39770.
4	12	1967	0.0	1839	-14 25.2	-170 43.8	5045.2	12.1	28	39731.
4	12	1967	0.0	19 0	-14 21.5	-170 41.8	5049.3	13.0	30	39693.
4	12	1967	0.0	19 1	-14 21.3	-170 41.7	5049.5	0.1	29	39692.
6	12	1967	0.0	310	-14 18.1	-170 39.9	5053.2	13.1	210	39659.
6	12	1967	0.0	311	-14 18.3	-170 40.0	5053.4	12.7	209	39661.
6	12	1967	0.0	338	-14 23.2	-170 42.7	5059.0	11.6	225	39711.
6	12	1967	0.0	4 9	-14 27.5	-170 47.3	5065.1	7.9	221	39762.
6	12	1967	0.0	433	-14 29.9	-170 49.3	5068.2	11.4	225	39788.
6	12	1967	0.0	613	-14 43.3	-171 3.4	5087.3	11.3	223	39946.
6	12	1967	0.0	7 0	-14 49.8	-171 9.6	5096.1	12.0	229	40021.
6	12	1967	0.0	941	-15 10.8	-171 35.0	5128.5	12.0	229	40283.
6	12	1967	0.0	1132	-15 25.3	-171 52.3	5150.6	12.2	231	40464.
6	12	1967	0.0	1149	-15 27.5	-171 55.1	5154.0	10.6	229	40491.
6	12	1967	0.0	1446	-15 48.0	-172 19.6	5185.3	10.7	231	40751.
6	12	1967	0.0	1632	-15 60.0	-172 34.8	5204.2	10.6	228	40907.
6	12	1967	0.0	1638	-16 0.7	-172 35.7	5205.3	12.6	231	40917.
6	12	1967	0.0	1741	-16 9.1	-172 46.2	5218.5	12.7	230	41026.
6	12	1967	0.0	19 3	-16 20.1	-173 0.1	5235.7	12.6	224	41170.
6	12	1967	0.0	2132	-16 42.5	-173 22.8	5267.0	13.4	226	41449.
6	12	1967	0.0	2211	-16 48.6	-173 29.4	5275.8	12.5	83	41527.
6	12	1967	0.0	23 5	-16 47.3	-173 17.8	5286.9	6.1	84	41478.
6	12	1967	0.0	2316	-16 47.2	-173 16.6	5288.1	5.2	82	41473.
6	12	1967	0.0	2319	-16 47.1	-173 16.4	5288.3	1.3	84	41472.
6	12	1967	0.0	2356	-16 47.0	-173 15.5	5289.1	4.3	82	41468.
7	12	1967	0.0	017	-16 46.8	-173 14.0	5290.6	11.7	82	41462.
7	12	1967	0.0	2 3	-16 44.0	-172 52.6	5311.3	8.0	82	41369.
7	12	1967	0.0	530	-16 40.3	-172 23.9	5339.0	8.7	81	41245.
7	12	1967	0.0	648	-16 38.6	-172 12.3	5350.3	7.5	81	41193.
7	12	1967	0.0	7 9	-16 38.2	-172 9.5	5353.0	7.2	81	41181.
7	12	1967	0.0	835	-16 36.6	-171 58.9	5363.2	0.9	270	41134.
7	12	1967	0.0	841	-16 36.6	-171 59.1	5363.3	8.3	81	41134.
7	12	1967	0.0	850	-16 36.4	-171 57.8	5364.5	3.7	51	41128.
7	12	1967	0.0	9 5	-16 35.9	-171 57.1	5365.4	3.5	31	41121.
7	12	1967	0.0	1112	-16 29.4	-171 53.0	5372.9	4.9	85	41049.
7	12	1967	0.0	1132	-16 29.3	-171 51.4	5374.5	10.7	86	41043.
7	12	1967	0.0	1539	-16 26.0	-171 5.4	5418.7	10.9	83	40871.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
7	12	1967	0.0	17 0	-16 24.3	-170 50.3	5433.3	12.0	84	40810.
7	12	1967	0.0	2250	-16 16.5	-169 38.1	5503.1	6.0	81	40520.
7	12	1967	0.0	23 7	-16 16.2	-169 36.3	5504.8	4.5	89	40513.
7	12	1967	0.0	2347	-16 16.2	-169 33.1	5507.8	6.3	86	40503.
7	12	1967	0.0	2355	-16 16.1	-169 32.2	5508.7	12.2	88	40499.
8	12	1967	0.0	3 0	-16 14.7	-168 53.0	5546.4	12.4	88	40368.
8	12	1967	0.0	5 9	-16 13.7	-168 25.1	5573.2	12.0	79	40277.
8	12	1967	0.0	620	-16 11.1	-168 10.7	5587.3	13.1	82	40211.
8	12	1967	0.0	650	-16 10.2	-168 4.0	5593.8	2.0	49	40182.
8	12	1967	0.0	915	-16 7.1	-168 0.2	5598.6	0.4	68	40144.
8	12	1967	0.0	923	-16 7.0	-168 0.2	5598.6	5.8	89	40143.
8	12	1967	0.0	930	-16 7.0	-167 59.5	5599.3	13.3	89	40141.
8	12	1967	0.0	952	-16 7.0	-167 54.5	5604.0	12.6	88	40126.
8	12	1967	0.0	1015	-16 6.8	-167 49.4	5608.9	12.5	82	40109.
8	12	1967	0.0	1143	-16 4.4	-167 30.5	5627.3	12.7	83	40032.
8	12	1967	0.0	1341	-16 1.3	-167 4.7	5652.3	12.7	181	39930.
8	12	1967	0.0	1443	-16 14.4	-167 4.8	5665.4	12.3	178	40045.
8	12	1967	0.0	1636	-16 37.4	-167 4.0	5688.4	12.0	179	40243.
8	12	1967	0.0	1746	-16 51.4	-167 3.7	5702.4	12.1	180	40366.
8	12	1967	0.0	18 0	-16 54.3	-167 3.7	5705.3	12.0	180	40391.
8	12	1967	0.0	1932	-17 12.7	-167 3.5	5723.7	13.5	179	40553.
8	12	1967	0.0	1952	-17 17.2	-167 3.4	5728.1	13.3	263	40592.
8	12	1967	0.0	2242	-17 21.8	-167 42.8	5766.0	7.2	261	40754.
8	12	1967	0.0	23 0	-17 22.1	-167 45.0	5768.1	4.0	111	40763.
8	12	1967	0.0	2338	-17 23.0	-167 42.6	5770.6	5.7	260	40764.
8	12	1967	0.0	2350	-17 23.2	-167 43.8	5771.7	13.1	263	40769.
9	12	1967	0.0	220	-17 27.2	-168 17.8	5804.5	11.9	263	40910.
9	12	1967	0.0	3 0	-17 28.2	-168 26.2	5812.5	13.1	263	40945.
9	12	1967	0.0	355	-17 29.6	-168 38.7	5824.5	12.6	262	40997.
9	12	1967	0.0	527	-17 32.3	-168 58.8	5843.9	12.8	265	41083.
9	12	1967	0.0	713	-17 34.3	-169 22.4	5866.5	12.8	262	41176.
9	12	1967	0.0	716	-17 34.4	-169 23.1	5867.1	7.4	271	41178.
9	12	1967	0.0	735	-17 34.4	-169 25.5	5869.4	3.3	294	41185.
9	12	1967	0.0	918	-17 32.1	-169 31.0	5875.1	2.3	308	41181.
9	12	1967	0.0	941	-17 31.5	-169 31.7	5876.1	7.1	266	41179.
9	12	1967	0.0	952	-17 31.6	-169 33.0	5877.3	11.7	267	41183.
9	12	1967	0.0	1052	-17 32.1	-169 45.2	5888.9	10.3	261	41227.
9	12	1967	0.0	1352	-17 37.2	-170 17.2	5919.9	12.4	277	41374.
9	12	1967	0.0	1426	-17 36.3	-170 24.7	5927.0	12.3	272	41389.
9	12	1967	0.0	1534	-17 35.7	-170 39.1	5940.8	11.4	265	41429.
9	12	1967	0.0	1653	-17 37.0	-170 55.0	5956.0	12.2	265	41490.
9	12	1967	0.0	17 0	-17 37.1	-170 56.4	5957.3	12.3	265	41496.
9	12	1967	0.0	1841	-17 38.8	-171 18.1	5978.1	12.3	264	41580.
9	12	1967	0.0	2147	-17 42.7	-171 57.7	6016.1	7.9	266	41743.
9	12	1967	0.0	22 3	-17 42.9	-171 60.0	6018.2	3.4	77	41752.
9	12	1967	0.0	2239	-17 42.5	-171 57.8	6020.2	7.3	99	41741.
9	12	1967	0.0	23 7	-17 43.0	-171 54.4	6023.5	10.5	267	41735.
10	12	1967	0.0	0 5	-17 43.5	-172 5.0	6033.7	8.9	267	41773.
10	12	1967	0.0	3 0	-17 44.6	-172 32.2	6059.6	8.5	264	41871.
10	12	1967	0.0	4 0	-17 45.5	-172 41.1	6068.1	12.0	265	41907.
10	12	1967	0.0	6 0	-17 47.5	-173 6.2	6092.1	12.4	265	42007.
10	12	1967	0.0	623	-17 47.9	-173 11.3	6097.0	12.5	264	42027.
10	12	1967	0.0	654	-17 48.6	-173 18.0	6103.4	7.8	263	42055.
10	12	1967	0.0	7 9	-17 48.8	-173 20.1	6105.4	3.6	257	42064.
10	12	1967	0.0	923	-17 50.6	-173 28.3	6113.4	7.5	268	42107.
10	12	1967	0.0	932	-17 50.6	-173 29.4	6114.4	12.8	269	42111.
10	12	1967	0.0	1133	-17 50.9	-173 56.5	6140.2	7.2	267	42201.
10	12	1967	0.0	1152	-17 51.0	-173 58.9	6142.5	7.0	270	42209.
10	12	1967	0.0	1154	-17 51.0	-173 59.2	6142.8	13.2	271	42210.
10	12	1967	0.0	1217	-17 50.9	-174 4.4	6147.7	7.2	270	42226.
10	12	1967	0.0	1226	-17 50.9	-174 5.6	6148.9	12.8	271	42230.
10	12	1967	0.0	1326	-17 50.7	-174 19.0	6161.6	12.8	264	42271.
10	12	1967	0.0	1441	-17 52.4	-174 35.7	6177.6	12.5	266	42342.
10	12	1967	0.0	1627	-17 54.1	-174 58.8	6199.7	12.2	265	42432.
10	12	1967	0.0	1630	-17 54.1	-174 59.4	6200.2	12.3	265	42435.
10	12	1967	0.0	1750	-17 55.5	-175 16.5	6216.6	12.3	262	42503.
10	12	1967	0.0	1938	-17 58.4	-175 39.5	6238.7	12.2	263	42606.
10	12	1967	0.0	20 6	-17 59.1	-175 45.5	6244.4	7.4	261	42633.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
10	12	1967	0.0	2110	-18 0.4	-175 53.8	6252.4	12.3	209	42672.
10	12	1967	0.0	2312	-18 22.2	-176 6.8	6277.5	7.8	206	42926.
10	12	1967	0.0	2327	-18 23.9	-176 7.7	6279.4	4.1	128	42946.
10	12	1967	0.0	2338	-18 24.4	-176 7.1	6280.1	2.6	126	42949.
11	12	1967	0.0	018	-18 25.4	-176 5.6	6281.9	4.9	214	42954.
11	12	1967	0.0	036	-18 26.6	-176 6.5	6283.3	12.3	212	42968.
11	12	1967	0.0	3 3	-18 52.2	-176 23.5	6313.6	12.5	216	43275.
11	12	1967	0.0	353	-19 0.7	-176 30.1	6324.1	12.6	212	43380.
11	12	1967	0.0	711	-19 35.9	-176 53.1	6365.5	6.6	208	43804.
11	12	1967	0.0	722	-19 36.9	-176 53.7	6366.6	6.8	214	43816.
11	12	1967	0.0	732	-19 37.9	-176 54.3	6367.8	2.1	324	43828.
11	12	1967	0.0	947	-19 34.0	-176 57.4	6372.6	0.2	73	43800.
11	12	1967	0.0	950	-19 34.0	-176 57.4	6372.6	5.7	219	43800.
11	12	1967	0.0	10 2	-19 34.9	-176 58.1	6373.8	12.6	219	43811.
11	12	1967	0.0	11 0	-19 44.4	-177 6.4	6386.0	12.2	218	43933.
11	12	1967	0.0	14 0	-20 12.9	-177 30.6	6422.5	12.3	218	44298.
11	12	1967	0.0	1534	-20 28.0	-177 43.3	6441.8	12.6	220	44492.
11	12	1967	0.0	1846	-20 59.0	-178 11.1	6482.2	12.5	217	44896.
11	12	1967	0.0	1930	-21 6.3	-178 17.0	6491.3	12.5	212	44989.
11	12	1967	0.0	2250	-21 41.6	-178 40.7	6533.0	13.3	219	45425.
11	12	1967	0.0	2332	-21 48.8	-178 47.1	6542.3	13.1	220	45520.
11	12	1967	0.0	2346	-21 51.1	-178 49.2	6545.4	1.6	75	45551.
12	12	1967	0.0	050	-21 50.7	-178 47.4	6547.1	6.3	224	45540.
12	12	1967	0.0	1 3	-21 51.7	-178 48.4	6548.4	13.3	219	45553.
12	12	1967	0.0	253	-22 10.6	-179 5.2	6573.0	13.9	213	45802.
12	12	1967	0.0	634	-22 53.4	-179 35.0	6623.8	12.3	214	46337.
12	12	1967	0.0	639	-22 54.4	-179 35.7	6625.0	11.0	214	46349.
12	12	1967	0.0	7 9	-22 59.0	-179 39.1	6630.5	4.5	212	46407.
12	12	1967	0.0	730	-23 0.3	-179 40.0	6632.1	5.6	303	46423.
12	12	1967	0.0	754	-22 59.0	-179 42.0	6634.3	4.0	360	46418.
12	12	1967	0.0	930	-22 52.6	-179 42.1	6640.8	0.8	49	46353.
12	12	1967	0.0	945	-22 52.5	-179 41.9	6641.0	5.0	213	46351.
12	12	1967	0.0	954	-22 53.1	-179 42.4	6641.7	12.1	214	46360.
12	12	1967	0.0	14 0	-23 34.3	179 47.3	6691.4	12.4	214	46881.
12	12	1967	0.0	1443	-23 41.6	179 41.9	6700.3	12.1	215	46974.
12	12	1967	0.0	1632	-23 59.7	179 28.1	6722.3	12.5	213	47204.
12	12	1967	0.0	1752	-24 13.6	179 18.2	6738.9	13.0	214	47379.
12	12	1967	0.0	1836	-24 21.5	179 12.3	6748.5	9.2	214	47479.
12	12	1967	0.0	1937	-24 29.2	179 6.5	6757.8	12.9	214	47577.
12	12	1967	0.0	1941	-24 30.1	179 5.9	6758.9	13.1	215	47587.
12	12	1967	0.0	22 2	-24 55.2	178 46.6	6789.5	13.0	216	47908.
12	12	1967	0.0	2348	-25 13.8	178 31.8	6812.4	13.4	217	48147.
13	12	1967	0.0	0 2	-25 16.4	178 29.7	6815.6	8.3	218	48179.
13	12	1967	0.0	018	-25 18.1	178 28.3	6817.8	1.4	94	48202.
13	12	1967	0.0	122	-25 18.2	178 29.8	6819.2	0.6	262	48197.
13	12	1967	0.0	127	-25 18.2	178 29.8	6819.3	7.4	218	48198.
13	12	1967	0.0	138	-25 19.2	178 28.9	6820.5	11.9	217	48211.
13	12	1967	0.0	541	-25 58.0	177 56.7	6869.0	11.6	212	48712.
13	12	1967	0.0	727	-26 15.4	177 44.8	6889.4	12.1	213	48928.
13	12	1967	0.0	757	-26 20.4	177 41.0	6895.5	7.6	212	48991.
13	12	1967	0.0	815	-26 22.4	177 39.7	6897.8	3.4	139	49015.
13	12	1967	0.0	845	-26 23.7	177 40.9	6899.5	4.2	228	49024.
13	12	1967	0.0	1030	-26 28.6	177 34.8	6906.9	0.7	183	49094.
13	12	1967	0.0	1038	-26 28.7	177 34.8	6907.0	3.6	333	49095.
13	12	1967	0.0	11 6	-26 27.2	177 34.0	6908.7	3.3	333	49083.
13	12	1967	0.0	1217	-26 23.8	177 32.1	6912.4	8.4	211	49057.
13	12	1967	0.0	1226	-26 24.9	177 31.3	6913.8	11.8	212	49070.
13	12	1967	0.0	1257	-26 30.1	177 27.7	6919.8	10.7	213	49134.
13	12	1967	0.0	1532	-26 53.1	177 10.9	6947.4	10.5	210	49423.
13	12	1967	0.0	1630	-27 1.9	177 5.2	6957.5	10.6	210	49530.
13	12	1967	0.0	1723	-27 10.1	177 0.0	6966.9	10.6	210	49629.
13	12	1967	0.0	1846	-27 22.7	176 51.7	6981.5	10.4	213	49783.
13	12	1967	0.0	2030	-27 37.9	176 40.6	6999.6	10.7	213	49971.
13	12	1967	0.0	2034	-27 38.5	176 40.2	7000.3	11.0	212	49978.
13	12	1967	0.0	2342	-28 7.7	176 19.2	7034.9	6.7	211	50338.
14	12	1967	0.0	0 0	-28 9.4	176 18.1	7036.9	4.2	316	50359.
14	12	1967	0.0	1 3	-28 6.3	176 14.6	7041.2	7.9	211	50340.
14	12	1967	0.0	124	-28 8.7	176 13.0	7044.1	10.7	212	50370.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
14	12	1967	0.0	436	-28 37.5	175 52.2	7078.2	10.7	213	50724.
14	12	1967	0.0	5 0	-28 41.2	175 49.5	7082.6	11.0	213	50769.
14	12	1967	0.0	6 5	-28 51.1	175 42.2	7094.4	0.6	81	50892.
14	12	1967	0.0	635	-28 51.1	175 42.5	7094.7	4.8	163	50890.
14	12	1967	0.0	638	-28 51.4	175 42.6	7095.0	9.3	212	50893.
14	12	1967	0.0	641	-28 51.7	175 42.3	7095.5	10.8	215	50897.
14	12	1967	0.0	7 8	-28 55.6	175 39.2	7100.2	13.7	215	50946.
14	12	1967	0.0	820	-29 9.1	175 28.4	7116.7	8.5	215	51115.
14	12	1967	0.0	838	-29 11.3	175 26.7	7119.3	1.1	215	51142.
14	12	1967	0.0	1020	-29 12.9	175 25.5	7121.2	4.4	258	51161.
14	12	1967	0.0	1120	-29 13.8	175 20.5	7125.6	4.4	215	51188.
14	12	1967	0.0	12 0	-29 16.2	175 18.5	7128.6	4.4	244	51218.
14	12	1967	0.0	1315	-29 18.6	175 12.9	7134.1	10.8	215	51262.
14	12	1967	0.0	1945	-30 15.8	174 26.4	7204.0	8.8	215	51972.
14	12	1967	0.0	1953	-30 16.8	174 25.6	7205.3	10.4	212	51985.
14	12	1967	0.0	2030	-30 22.1	174 21.7	7211.6	12.7	212	52050.
15	12	1967	0.0	0 0	-30 59.9	173 54.0	7256.2	7.9	212	52503.
15	12	1967	0.0	020	-31 2.0	173 52.4	7258.8	0.3	224	52529.
15	12	1967	0.0	1 5	-31 2.2	173 52.3	7259.0	7.8	215	52531.
15	12	1967	0.0	115	-31 3.3	173 51.4	7260.3	12.8	215	52545.
15	12	1967	0.0	315	-31 24.1	173 34.2	7285.8	7.9	215	52800.
15	12	1967	0.0	320	-31 24.6	173 33.8	7286.4	10.8	215	52806.
15	12	1967	0.0	530	-31 43.7	173 18.0	7309.8	12.8	215	53040.
15	12	1967	0.0	715	-32 2.0	173 2.8	7332.1	7.8	215	53262.
15	12	1967	0.0	737	-32 4.2	173 0.9	7334.9	0.3	224	53290.
15	12	1967	0.0	1130	-32 5.0	173 0.1	7335.9	7.7	215	53299.
15	12	1967	0.0	12 5	-32 8.6	172 57.1	7340.4	11.7	215	53343.
15	12	1967	0.0	1845	-33 12.6	172 3.4	7418.7	12.2	200	54115.
15	12	1967	0.0	1853	-33 14.3	172 2.7	7420.5	11.4	203	54132.
15	12	1967	0.0	1930	-33 20.6	171 59.4	7427.4	11.9	203	54201.
15	12	1967	0.0	2038	-33 33.0	171 53.2	7440.8	12.1	197	54334.
15	12	1967	0.0	2132	-33 43.5	171 49.4	7451.7	11.9	205	54441.
15	12	1967	0.0	22 5	-33 49.3	171 46.1	7458.2	12.1	210	54506.
15	12	1967	0.0	2313	-34 1.3	171 37.7	7472.1	12.7	209	54642.
16	12	1967	0.0	0 8	-34 11.6	171 30.9	7483.8	7.1	212	54757.
16	12	1967	0.0	020	-34 12.7	171 30.0	7485.1	0.8	287	54770.
16	12	1967	0.0	118	-34 12.5	171 29.1	7485.9	7.7	221	54771.
16	12	1967	0.0	130	-34 13.6	171 27.9	7487.5	12.8	219	54786.
16	12	1967	0.0	252	-34 27.2	171 14.7	7504.9	12.0	214	54951.
16	12	1967	0.0	432	-34 43.9	171 1.1	7524.9	12.3	213	55145.
16	12	1967	0.0	646	-35 7.0	170 42.9	7552.5	12.4	216	55411.
16	12	1967	0.0	735	-35 15.2	170 35.7	7562.6	7.5	216	55507.
16	12	1967	0.0	750	-35 16.7	170 34.3	7564.4	4.4	342	55525.
16	12	1967	0.0	1023	-35 6.1	170 30.1	7575.6	4.0	217	55446.
16	12	1967	0.0	1050	-35 7.5	170 28.8	7577.4	4.2	232	55463.
16	12	1967	0.0	12 7	-35 10.8	170 23.7	7582.7	0.2	329	55509.
16	12	1967	0.0	12 8	-35 10.8	170 23.7	7582.7	7.1	201	55509.
16	12	1967	0.0	1220	-35 12.1	170 23.1	7584.0	7.0	199	55522.
16	12	1967	0.0	1232	-35 13.4	170 22.6	7585.5	12.4	199	55536.
16	12	1967	0.0	1439	-35 38.3	170 11.8	7611.8	12.6	198	55789.
16	12	1967	0.0	1623	-35 59.1	170 3.7	7633.6	12.9	200	55996.
16	12	1967	0.0	1638	-36 2.1	170 2.4	7636.8	12.8	146	56027.
16	12	1967	0.0	1757	-36 16.0	170 13.9	7653.6	12.5	144	56108.
16	12	1967	0.0	2011	-36 38.6	170 34.5	7681.6	10.2	144	56233.
16	12	1967	0.0	21 0	-36 45.3	170 40.7	7689.9	12.5	144	56270.
16	12	1967	0.0	2227	-37 0.0	170 54.1	7708.2	12.7	144	56350.
17	12	1967	0.0	336	-37 52.7	171 43.2	7773.7	12.0	148	56631.
17	12	1967	0.0	352	-37 55.4	171 45.3	7776.8	7.0	149	56646.
17	12	1967	0.0	4 3	-37 56.5	171 46.2	7778.1	10.0	148	56652.
17	12	1967	0.0	515	-38 6.7	171 54.2	7790.1	12.1	147	56711.
17	12	1967	0.0	522	-38 7.8	171 55.1	7791.4	12.4	145	56717.
17	12	1967	0.0	6 0	-38 14.2	172 1.0	7799.4	12.7	144	56751.
17	12	1967	0.0	739	-38 31.3	172 16.7	7820.4	13.1	145	56841.
17	12	1967	0.0	838	-38 41.9	172 26.1	7833.3	7.9	145	56897.
17	12	1967	0.0	856	-38 43.8	172 27.8	7835.7	13.4	145	56907.
17	12	1967	0.0	938	-38 51.4	172 34.6	7844.9	11.9	143	56948.
17	12	1967	0.0	1123	-39 8.1	172 51.0	7865.9	12.2	147	57031.
17	12	1967	0.0	12 0	-39 14.3	172 56.3	7873.3	11.7	148	57064.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
17	12	1967	0.0	1316	-39 26.9	173 6.5	7888.2	12.3	141	57133.
17	12	1967	0.0	1532	-39 48.6	173 29.1	7916.1	12.8	144	57236.
17	12	1967	0.0	1716	-40 6.9	173 46.7	7938.7	12.9	148	57326.
17	12	1967	0.0	1852	-40 24.0	174 0.5	7958.8	12.2	145	57420.
17	12	1967	0.0	21 2	-40 45.7	174 20.2	7985.2	12.1	157	57530.
17	12	1967	0.0	2141	-40 53.0	174 24.4	7993.2	12.0	157	57576.
17	12	1967	0.0	2245	-41 4.8	174 30.9	8005.9	14.6	172	57650.
17	12	1967	0.0	2255	-41 7.3	174 31.4	8008.4	12.7	167	57669.
17	12	1967	0.0	2323	-41 13.1	174 33.1	8014.4	13.2	171	57710.
17	12	1967	0.0	2330	-41 14.5	174 33.4	8015.9	13.8	191	57721.
18	12	1967	0.0	145	-41 45.0	174 25.6	8046.9	13.5	201	57995.
18	12	1967	0.0	430	-42 19.7	174 8.1	8084.0	13.7	200	58333.
18	12	1967	0.0	5 6	-42 27.4	174 4.3	8092.1	13.3	198	58407.
18	12	1967	0.0	6 0	-42 38.8	173 59.2	8104.1	13.3	198	58515.
18	12	1967	0.0	616	-42 42.1	173 57.7	8107.6	13.0	194	58547.
18	12	1967	0.0	653	-42 50.0	173 55.0	8115.7	12.7	203	58619.
18	12	1967	0.0	838	-43 10.2	173 43.1	8137.8	12.9	200	58819.
18	12	1967	0.0	1036	-43 34.0	173 31.1	8163.1	13.1	201	59046.
18	12	1967	0.0	11 0	-43 39.0	173 28.5	8168.4	13.0	220	59094.
18	12	1967	0.0	1439	-44 15.2	172 45.6	8216.0	12.2	222	59517.
18	12	1967	0.0	1632	-44 32.3	172 24.1	8239.0	12.6	223	59718.
18	12	1967	0.0	17 8	-44 37.9	172 16.7	8246.7	11.1	224	59784.
18	12	1967	0.0	1738	-44 41.9	172 11.3	8252.2	11.1	226	59832.
18	12	1967	0.0	1757	-44 44.3	172 7.8	8255.7	10.2	218	59862.
18	12	1967	0.0	19 9	-44 54.0	171 57.2	8267.9	12.1	228	59970.
18	12	1967	0.0	1948	-44 59.2	171 49.2	8275.7	10.5	221	60035.
18	12	1967	0.0	2055	-45 8.1	171 38.3	8287.5	9.7	226	60138.
18	12	1967	0.0	2238	-45 19.7	171 21.5	8304.0	10.3	224	60279.
18	12	1967	0.0	2338	-45 27.3	171 11.1	8314.5	8.3	220	60368.
19	12	1967	0.0	025	-45 32.2	171 5.2	8321.0	9.1	230	60424.
19	12	1967	0.0	053	-45 35.0	171 0.5	8325.2	12.5	228	60459.
19	12	1967	0.0	150	-45 42.9	170 48.2	8336.9	7.7	231	60556.
19	12	1967	0.0	2 0	-45 43.7	170 46.7	8338.2			60567.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
30	12	1967	0.0	836	-45 45.0	170 43.0	0.0	11.7	2	60587.
30	12	1967	0.0	842	-45 43.8	170 43.0	1.2	11.2	87	60578.
30	12	1967	0.0	858	-45 43.7	170 47.3	4.2	11.6	132	60564.
30	12	1967	0.0	921	-45 46.6	170 52.1	8.6	12.0	185	60572.
30	12	1967	0.0	1136	-46 13.6	170 48.9	35.7	11.6	181	60784.
30	12	1967	0.0	1255	-46 28.9	170 48.7	51.0	7.8	178	60899.
30	12	1967	0.0	13 8	-46 30.6	170 48.8	52.6	10.4	180	60911.
30	12	1967	0.0	1424	-46 43.7	170 48.8	65.8	10.5	184	61009.
30	12	1967	0.0	1640	-47 7.4	170 46.1	89.5	10.6	184	61192.
30	12	1967	0.0	17 0	-47 10.9	170 45.7	93.1	10.7	184	61219.
30	12	1967	0.0	1754	-47 20.5	170 44.7	102.7	10.6	185	61293.
30	12	1967	0.0	1832	-47 27.2	170 43.8	109.4	10.6	186	61345.
30	12	1967	0.0	21 0	-47 53.1	170 39.7	135.5	10.2	186	61547.
30	12	1967	0.0	2154	-48 2.2	170 38.2	144.6	10.4	188	61617.
30	12	1967	0.0	2342	-48 20.6	170 34.3	163.4	10.6	186	61763.
31	12	1967	0.0	1 0	-48 34.5	170 32.0	177.1	11.0	186	61868.
31	12	1967	0.0	5 0	-49 18.4	170 24.5	221.3	11.0	186	62203.
31	12	1967	0.0	5 2	-49 18.7	170 24.5	221.7	11.2	187	62206.
31	12	1967	0.0	648	-49 38.3	170 20.6	241.4	11.0	184	62355.
31	12	1967	0.0	650	-49 38.7	170 20.6	241.8	11.8	189	62358.
31	12	1967	0.0	9 0	-50 4.0	170 14.2	267.4	12.2	189	62553.
31	12	1967	0.0	1010	-50 18.0	170 10.6	281.6	12.1	193	62661.
31	12	1967	0.0	1334	-50 58.3	169 56.5	322.9	11.7	191	62976.
31	12	1967	0.0	15 0	-51 14.7	169 51.2	339.6	11.7	191	63101.
31	12	1967	0.0	1548	-51 23.8	169 48.2	349.0	11.6	190	63171.
31	12	1967	0.0	1738	-51 44.8	169 42.0	370.2	11.7	191	63327.
31	12	1967	0.0	1922	-52 4.6	169 35.5	390.5	11.3	194	63476.
31	12	1967	0.0	1934	-52 6.8	169 34.5	392.8	9.9	234	63493.
31	12	1967	0.0	1948	-52 8.2	169 31.5	395.1	11.3	244	63510.
31	12	1967	0.0	1957	-52 8.9	169 29.0	396.8	12.4	254	63521.
31	12	1967	0.0	2025	-52 10.5	169 19.9	402.6	11.0	179	63555.
31	12	1967	0.0	2040	-52 13.2	169 20.0	405.3	11.7	177	63573.
31	12	1967	0.0	23 6	-52 41.7	169 22.2	433.8	12.3	162	63752.
1	1	1968	0.0	030	-52 58.1	169 31.0	451.0	6.2	159	63835.
1	1	1968	0.0	045	-52 59.5	169 31.9	452.6	0.7	54	63842.
1	1	1968	0.0	2 3	-52 59.0	169 33.1	453.4	6.8	155	63836.
1	1	1968	0.0	215	-53 0.2	169 34.1	454.8	9.4	156	63841.
1	1	1968	0.0	230	-53 2.4	169 35.7	457.2	12.2	157	63851.
1	1	1968	0.0	356	-53 18.4	169 47.1	474.6	11.6	159	63925.
1	1	1968	0.0	448	-53 27.8	169 53.0	484.7	6.7	159	63970.
1	1	1968	0.0	5 0	-53 29.1	169 53.9	486.0	8.1	341	63975.
1	1	1968	0.0	514	-53 27.3	169 52.8	487.9	4.3	226	63967.
1	1	1968	0.0	540	-53 28.6	169 50.6	489.7	4.1	218	63981.
1	1	1968	0.0	548	-53 29.0	169 50.0	490.3	5.6	38	63985.
1	1	1968	0.0	6 0	-53 28.1	169 51.2	491.4	2.9	234	63976.
1	1	1968	0.0	712	-53 30.1	169 46.5	494.9	11.4	157	64001.
1	1	1968	0.0	728	-53 32.9	169 48.5	497.9	11.5	160	64013.
1	1	1968	0.0	9 7	-53 50.8	169 59.3	516.9	2.5	242	64099.
1	1	1968	0.0	956	-53 51.8	169 56.3	518.9	2.4	242	64112.
1	1	1968	0.0	1045	-53 52.7	169 53.3	520.9	12.1	160	64125.
1	1	1968	0.0	1144	-54 3.9	170 0.3	532.8	11.9	159	64178.
1	1	1968	0.0	1424	-54 33.7	170 19.4	564.6	12.1	159	64315.
1	1	1968	0.0	1510	-54 42.3	170 25.2	573.9	11.1	341	64354.
1	1	1968	0.0	1520	-54 40.6	170 24.2	575.7	0.4	24	64346.
1	1	1968	0.0	1610	-54 40.3	170 24.4	576.1	1.1	105	64344.
1	1	1968	0.0	1720	-54 40.6	170 26.5	577.3	11.4	170	64341.
1	1	1968	0.0	1948	-55 8.4	170 35.0	605.5	11.7	174	64488.
1	1	1968	0.0	22 0	-55 33.8	170 39.8	631.1	11.5	174	64629.
1	1	1968	0.0	22 6	-55 35.0	170 40.0	632.3	9.2	172	64635.
2	1	1968	0.0	1 0	-56 1.4	170 46.4	658.9	3.9	168	64775.
2	1	1968	0.0	115	-56 2.4	170 46.8	659.9	9.6	172	64779.
2	1	1968	0.0	2 7	-56 10.6	170 48.8	668.3	5.5	170	64823.
2	1	1968	0.0	222	-56 12.0	170 49.2	669.7	9.7	172	64829.
2	1	1968	0.0	450	-56 35.8	170 55.0	693.7	10.6	177	64952.
2	1	1968	0.0	526	-56 42.2	170 55.5	700.1	10.8	183	64986.
2	1	1968	0.0	824	-57 14.2	170 52.9	732.1	9.8	183	65169.
2	1	1968	0.0	9 0	-57 20.0	170 52.4	737.9	10.4	183	65202.
2	1	1968	0.0	9 8	-57 21.4	170 52.3	739.3	11.4	180	65210.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
2	1	1968	0.0	1054	-57 41.5	170 52.0	759.4	11.0	178	65318.
2	1	1968	0.0	1242	-58 1.2	170 53.3	779.1	10.9	175	65419.
2	1	1968	0.0	1332	-58 10.3	170 54.7	788.2	11.0	175	65463.
2	1	1968	0.0	1516	-58 29.2	170 58.1	807.3	11.0	176	65552.
2	1	1968	0.0	1554	-58 36.2	170 59.1	814.2	10.6	173	65585.
2	1	1968	0.0	1625	-58 41.6	171 0.3	819.7	10.6	178	65610.
2	1	1968	0.0	17 4	-58 48.5	171 0.8	826.6	10.6	176	65643.
2	1	1968	0.0	1856	-59 8.1	171 3.4	846.3	11.2	176	65733.
2	1	1968	0.0	1936	-59 15.6	171 4.6	853.7	10.8	180	65767.
2	1	1968	0.0	20 0	-59 19.9	171 4.6	858.0	8.2	185	65787.
2	1	1968	0.0	2015	-59 21.9	171 4.3	860.1	9.4	185	65797.
2	1	1968	0.0	2046	-59 26.7	171 3.4	864.9	9.5	184	65822.
2	1	1968	0.0	2124	-59 32.8	171 2.6	871.0	8.9	187	65852.
2	1	1968	0.0	2310	-59 48.4	170 58.8	886.8	10.1	184	65932.
2	1	1968	0.0	2319	-59 50.0	170 58.6	888.3	8.8	101	65939.
2	1	1968	0.0	2329	-59 50.2	171 1.4	889.8	10.1	184	65935.
3	1	1968	0.0	030	-60 0.5	170 59.9	900.0	8.9	183	65984.
3	1	1968	0.0	039	-60 1.8	170 59.8	901.4	4.0	253	65990.
3	1	1968	0.0	121	-60 2.6	170 54.4	904.1	3.0	221	66005.
3	1	1968	0.0	216	-60 4.7	170 50.8	906.9	3.7	228	66021.
3	1	1968	0.0	230	-60 5.3	170 49.5	907.8	3.1	235	66026.
3	1	1968	0.0	4 0	-60 8.0	170 41.9	912.5	2.8	234	66053.
3	1	1968	0.0	4 2	-60 8.0	170 41.7	912.6	2.8	233	66054.
3	1	1968	0.0	6 2	-60 11.5	170 32.7	918.2	3.0	220	66086.
3	1	1968	0.0	620	-60 12.2	170 31.6	919.1	1.2	153	66092.
3	1	1968	0.0	736	-60 13.5	170 33.0	920.6	1.2	156	66095.
3	1	1968	0.0	820	-60 14.3	170 33.7	921.5	1.4	160	66097.
3	1	1968	0.0	930	-60 15.9	170 34.8	923.2	1.3	145	66102.
3	1	1968	0.0	1152	-60 18.5	170 38.5	926.3	0.9	101	66106.
3	1	1968	0.0	1312	-60 18.7	170 41.0	927.6	8.9	155	66102.
3	1	1968	0.0	1322	-60 20.1	170 42.3	929.1	11.7	156	66105.
3	1	1968	0.0	1424	-60 31.1	170 52.3	941.2	11.4	156	66133.
3	1	1968	0.0	1610	-60 49.6	171 9.1	961.4	11.5	156	66179.
3	1	1968	0.0	1758	-61 8.5	171 26.8	982.2	11.2	155	66223.
3	1	1968	0.0	1954	-61 28.1	171 45.4	1003.8	11.1	157	66267.
3	1	1968	0.0	21 0	-61 39.4	171 55.3	1015.9	11.4	155	66292.
3	1	1968	0.0	2218	-61 52.8	172 8.4	1030.8	11.1	158	66320.
3	1	1968	0.0	2336	-62 6.3	172 19.9	1045.2	12.0	151	66349.
4	1	1968	0.0	0 5	-62 11.3	172 26.0	1051.0	11.8	155	66357.
4	1	1968	0.0	120	-62 24.7	172 39.2	1065.7	11.6	159	66381.
4	1	1968	0.0	318	-62 45.9	172 57.1	1088.5	11.5	157	66424.
4	1	1968	0.0	450	-63 2.0	173 12.3	1106.1	11.9	157	66452.
4	1	1968	0.0	515	-63 6.6	173 16.6	1111.0	10.9	164	66459.
4	1	1968	0.0	652	-63 23.5	173 27.7	1128.7	11.0	166	66495.
4	1	1968	0.0	832	-63 41.3	173 37.5	1147.0	11.1	167	66534.
4	1	1968	0.0	11 6	-64 9.1	173 52.0	1175.5	11.2	166	66591.
4	1	1968	0.0	1146	-64 16.3	173 56.2	1182.9	10.8	168	66605.
4	1	1968	0.0	1518	-64 53.6	174 15.3	1221.1	10.6	169	66672.
4	1	1968	0.0	1552	-64 59.5	174 18.1	1227.1	10.5	167	66681.
4	1	1968	0.0	1630	-65 6.0	174 21.6	1233.8	11.3	165	66692.
4	1	1968	0.0	1716	-65 14.4	174 26.8	1242.4	10.8	168	66703.
4	1	1968	0.0	18 2	-65 22.5	174 30.8	1250.7	10.8	167	66715.
4	1	1968	0.0	1820	-65 25.6	174 32.6	1254.0	10.6	164	66719.
4	1	1968	0.0	1946	-65 40.3	174 42.8	1269.2	11.7	162	66735.
4	1	1968	0.0	2122	-65 58.1	174 57.2	1288.0	6.9	159	66748.
4	1	1968	0.0	2138	-65 59.8	174 58.8	1289.8	0.9	113	66749.
4	1	1968	0.0	2317	-66 0.4	175 2.0	1291.2	3.4	289	66745.
5	1	1968	0.0	048	-65 58.6	174 49.9	1296.4	2.3	289	66761.
5	1	1968	0.0	112	-65 58.3	174 47.8	1297.4	3.6	299	66764.
5	1	1968	0.0	226	-65 56.2	174 38.2	1301.8	2.8	294	66775.
5	1	1968	0.0	325	-65 55.1	174 32.1	1304.5	0.4	80	66782.
5	1	1968	0.0	356	-65 55.0	174 32.7	1304.8	0.8	244	66781.
5	1	1968	0.0	452	-65 55.3	174 31.0	1305.5	1.3	83	66784.
5	1	1968	0.0	5 0	-65 55.3	174 31.4	1305.7	5.9	123	66784.
5	1	1968	0.0	5 6	-65 55.6	174 32.6	1306.3	11.9	127	66782.
5	1	1968	0.0	537	-65 59.4	174 44.6	1312.4	12.2	128	66771.
5	1	1968	0.0	544	-66 0.2	174 47.4	1313.8	12.2	130	66768.
5	1	1968	0.0	546	-66 0.5	174 48.2	1314.3	11.5	130	66767.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
5	1	1968	0.0	6 8	-66 3.3	174 56.1	1318.5	8.6	130	66760.
5	1	1968	0.0	622	-66 4.5	174 59.9	1320.5	6.9	129	66757.
5	1	1968	0.0	628	-66 5.0	175 1.2	1321.2	8.9	130	66755.
5	1	1968	0.0	640	-66 6.1	175 4.6	1323.0	6.9	129	66752.
5	1	1968	0.0	654	-66 7.1	175 7.7	1324.6	6.3	129	66749.
5	1	1968	0.0	715	-66 8.5	175 12.0	1326.8	11.9	130	66745.
5	1	1968	0.0	742	-66 12.0	175 22.1	1332.2	11.0	133	66736.
5	1	1968	0.0	746	-66 12.5	175 23.5	1332.9	7.3	133	66734.
5	1	1968	0.0	8 0	-66 13.7	175 26.5	1334.6	11.5	133	66732.
5	1	1968	0.0	929	-66 25.2	175 57.7	1351.6	10.0	133	66704.
5	1	1968	0.0	935	-66 25.8	175 59.6	1352.6	11.6	133	66702.
5	1	1968	0.0	10 7	-66 30.0	176 11.0	1358.8	10.3	153	66691.
5	1	1968	0.0	1014	-66 31.1	176 12.4	1360.0	10.9	133	66691.
5	1	1968	0.0	1030	-66 33.1	176 17.7	1362.9	11.0	131	66686.
5	1	1968	0.0	1110	-66 37.8	176 31.7	1370.2	8.3	131	66672.
5	1	1968	0.0	1128	-66 39.5	176 36.5	1372.7	10.8	131	66667.
5	1	1968	0.0	12 0	-66 43.2	176 47.5	1378.5	10.7	129	66656.
5	1	1968	0.0	13 9	-66 50.9	177 11.9	1390.8	10.2	124	66630.
5	1	1968	0.0	1348	-66 54.6	177 26.0	1397.5	10.3	126	66614.
5	1	1968	0.0	14 9	-66 56.7	177 33.5	1401.1	10.8	134	66606.
5	1	1968	0.0	1616	-67 12.4	178 15.9	1423.9	10.6	134	66563.
5	1	1968	0.0	1635	-67 14.8	178 22.1	1427.2	8.0	134	66556.
5	1	1968	0.0	17 5	-67 17.5	178 29.6	1431.2	9.5	131	66549.
5	1	1968	0.0	1716	-67 18.7	178 33.1	1433.0	10.6	130	66545.
5	1	1968	0.0	1733	-67 20.6	178 39.0	1436.0	7.9	130	66538.
5	1	1968	0.0	1753	-67 22.3	178 44.2	1438.6	1.0	133	66532.
5	1	1968	0.0	18 0	-67 22.4	178 44.4	1438.7	0.5	89	66532.
5	1	1968	0.0	20 2	-67 22.4	178 47.3	1439.8	0.2	35	66528.
5	1	1968	0.0	2238	-67 21.8	178 48.2	1440.4	0.6	332	66525.
5	1	1968	0.0	2345	-67 21.2	178 47.3	1441.2	11.6	121	66526.
6	1	1968	0.0	118	-67 30.6	179 27.3	1459.2	11.6	123	66475.
6	1	1968	0.0	2 8	-67 35.9	179 48.7	1468.9	10.8	123	66448.
6	1	1968	0.0	217	-67 36.8	179 52.2	1470.5	10.3	123	66444.
6	1	1968	0.0	247	-67 39.5	-179 56.4	1475.6	9.4	123	66429.
6	1	1968	0.0	3 4	-67 41.0	-179 50.5	1478.3	6.6	123	66422.
6	1	1968	0.0	353	-67 43.9	-179 38.6	1483.7	0.5	308	66407.
6	1	1968	0.0	354	-67 43.9	-179 38.7	1483.7	10.0	123	66407.
6	1	1968	0.0	415	-67 45.8	-179 30.9	1487.2	1.8	131	66397.
6	1	1968	0.0	7 5	-67 49.1	-179 20.9	1492.2	0.5	305	66385.
6	1	1968	0.0	1056	-67 48.0	-179 25.2	1494.2	6.5	136	66391.
6	1	1968	0.0	1132	-67 50.8	-179 18.0	1498.1	6.4	125	66383.
6	1	1968	0.0	1242	-67 55.0	-179 1.7	1505.6	7.5	282	66362.
6	1	1968	0.0	13 6	-67 54.4	-179 9.5	1508.6	7.5	305	66374.
6	1	1968	0.0	1431	-67 48.3	-179 32.6	1519.2	0.6	306	66403.
6	1	1968	0.0	1432	-67 48.3	-179 32.6	1519.2	7.2	272	66403.
6	1	1968	0.0	1456	-67 48.2	-179 40.3	1522.1	7.1	300	66415.
6	1	1968	0.0	1623	-67 43.0	179 56.1	1532.5	8.2	291	66446.
6	1	1968	0.0	17 3	-67 41.0	179 42.7	1537.9	5.5	278	66465.
6	1	1968	0.0	19 0	-67 39.6	179 14.8	1548.6	6.3	249	66508.
5	1	1968	0.0	1938	-67 41.0	179 5.0	1552.6	8.2	183	66526.
6	1	1968	0.0	1956	-67 43.5	179 4.6	1555.1	8.5	178	66530.
6	1	1968	0.0	2232	-68 5.6	179 6.9	1577.3	7.1	175	66552.
6	1	1968	0.0	23 0	-68 8.9	179 7.8	1580.6	2.6	241	66554.
7	1	1968	0.0	0 0	-68 10.2	179 1.6	1583.2	2.7	165	66565.
7	1	1968	0.0	022	-68 11.1	179 2.3	1584.2	3.7	171	66565.
7	1	1968	0.0	115	-68 14.3	179 3.6	1587.4	2.5	260	66566.
7	1	1968	0.0	150	-68 14.6	178 59.8	1588.9	2.5	284	66573.
7	1	1968	0.0	235	-68 14.1	178 54.9	1590.7	2.9	312	66580.
7	1	1968	0.0	339	-68 12.1	178 48.8	1593.8	5.1	174	66587.
7	1	1968	0.0	354	-68 13.4	178 49.2	1595.0	3.5	175	66588.
7	1	1968	0.0	420	-68 14.9	178 49.5	1596.6	4.1	191	66589.
7	1	1968	0.0	554	-68 21.1	178 46.4	1602.9	4.9	252	66599.
7	1	1968	0.0	615	-68 21.7	178 42.0	1604.6	4.1	191	66606.
7	1	1968	0.0	650	-68 24.0	178 40.8	1607.0	6.0	192	66610.
7	1	1968	0.0	7 0	-68 25.0	178 40.3	1608.0	4.6	183	66612.
7	1	1968	0.0	930	-68 36.5	178 38.7	1619.6	4.7	193	66623.
7	1	1968	0.0	1026	-68 40.8	178 36.0	1624.0	4.3	189	66630.
7	1	1968	0.0	11 0	-68 43.2	178 35.0	1626.4	4.2	222	66633.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
7	1	1968	0.0	1245	-68 48.7	178 21.4	1633.8	4.0	239	66657.
7	1	1968	0.0	15 0	-68 53.4	178 0.0	1642.8	4.0	177	66690.
7	1	1968	0.0	1545	-68 56.4	178 0.4	1645.8	4.1	155	66691.
7	1	1968	0.0	16 6	-68 57.7	178 2.1	1647.2	4.3	150	66689.
7	1	1968	0.0	1615	-68 58.2	178 3.0	1647.8	4.5	171	66688.
7	1	1968	0.0	1645	-69 0.4	178 3.9	1650.1	4.8	131	66688.
7	1	1968	0.0	1715	-69 2.0	178 9.0	1652.5	4.3	171	66681.
7	1	1968	0.0	18 0	-69 5.2	178 10.5	1655.8	4.7	151	66681.
7	1	1968	0.0	1822	-69 6.7	178 12.8	1657.5	4.2	153	66678.
7	1	1968	0.0	1824	-69 6.9	178 13.0	1657.6	4.6	262	66678.
7	1	1968	0.0	19 8	-69 7.3	178 3.7	1661.0	5.2	264	66691.
7	1	1968	0.0	2026	-69 8.1	177 44.8	1667.7	4.9	250	66718.
7	1	1968	0.0	2130	-69 9.9	177 30.9	1673.0	6.5	292	66738.
7	1	1968	0.0	2138	-69 9.6	177 28.7	1673.9	6.9	288	66741.
7	1	1968	0.0	22 0	-69 8.8	177 21.8	1676.4	5.7	249	66751.
7	1	1968	0.0	2230	-69 9.8	177 14.4	1679.3	5.7	193	66762.
7	1	1968	0.0	23 0	-69 12.6	177 12.6	1682.1	5.0	131	66765.
7	1	1968	0.0	2345	-69 15.0	177 20.6	1685.9	5.6	235	66754.
8	1	1968	0.0	0 0	-69 15.8	177 17.4	1687.3	0.9	210	66759.
8	1	1968	0.0	030	-69 16.2	177 16.7	1687.7	0.6	314	66760.
8	1	1968	0.0	1 8	-69 16.0	177 15.9	1688.1	5.6	233	66761.
8	1	1968	0.0	135	-69 17.5	177 10.2	1690.6	5.7	251	66769.
8	1	1968	0.0	222	-69 19.0	176 58.2	1695.1	5.6	238	66786.
8	1	1968	0.0	235	-69 19.6	176 55.2	1696.3	6.2	229	66790.
8	1	1968	0.0	3 0	-69 21.3	176 49.6	1698.9	5.6	285	66798.
8	1	1968	0.0	322	-69 20.8	176 44.0	1701.0	5.2	307	66805.
8	1	1968	0.0	330	-69 20.4	176 42.4	1701.7	5.8	142	66807.
8	1	1968	0.0	4 0	-69 22.6	176 47.4	1704.6	7.0	106	66801.
8	1	1968	0.0	430	-69 23.6	176 57.0	1708.1	7.0	106	66788.
8	1	1968	0.0	435	-69 23.7	176 58.5	1708.6	4.3	264	66786.
8	1	1968	0.0	444	-69 23.8	176 56.7	1709.3	5.2	260	66788.
8	1	1968	0.0	515	-69 24.3	176 49.2	1712.0	5.6	97	66799.
8	1	1968	0.0	6 0	-69 24.8	177 1.1	1716.2	4.1	237	66782.
8	1	1968	0.0	630	-69 25.9	176 56.2	1718.2	6.2	251	66789.
8	1	1968	0.0	7 0	-69 26.9	176 47.9	1721.3	2.0	298	66800.
8	1	1968	0.0	7 1	-69 26.9	176 47.8	1721.4	6.7	236	66800.
8	1	1968	0.0	745	-69 29.6	176 36.1	1726.3	5.6	241	66816.
8	1	1968	0.0	750	-69 29.8	176 35.0	1726.8	4.3	204	66818.
8	1	1968	0.0	755	-69 30.2	176 34.5	1727.1	3.0	147	66819.
8	1	1968	0.0	8 0	-69 30.4	176 34.9	1727.4	3.2	74	66818.
8	1	1968	0.0	8 5	-69 30.3	176 35.7	1727.6	4.6	21	66817.
8	1	1968	0.0	810	-69 30.0	176 36.1	1728.0	5.9	343	66816.
8	1	1968	0.0	815	-69 29.5	176 35.6	1728.5	6.9	227	66817.
8	1	1968	0.0	844	-69 31.8	176 28.7	1731.8	6.3	213	66826.
8	1	1968	0.0	915	-69 34.5	176 23.7	1735.1	4.7	274	66833.
8	1	1968	0.0	10 0	-69 34.2	176 13.6	1738.6	4.4	214	66846.
8	1	1968	0.0	1030	-69 36.0	176 10.0	1740.8	4.0	182	66851.
8	1	1968	0.0	11 0	-69 38.1	176 9.8	1742.8	4.2	150	66851.
8	1	1968	0.0	1130	-69 39.9	176 12.8	1744.9	4.1	193	66847.
8	1	1968	0.0	1215	-69 42.8	176 10.8	1748.0	3.4	84	66849.
8	1	1968	0.0	1315	-69 42.5	176 20.4	1751.4	3.3	116	66836.
8	1	1968	0.0	14 0	-69 43.6	176 26.8	1753.8	3.4	242	66827.
8	1	1968	0.0	1515	-69 45.6	176 16.0	1758.1	3.3	194	66841.
8	1	1968	0.0	16 0	-69 48.0	176 14.3	1760.5	3.0	161	66843.
8	1	1968	0.0	16 4	-69 48.2	176 14.4	1760.7	4.0	169	66843.
8	1	1968	0.0	17 5	-69 52.1	176 16.7	1764.8	4.7	235	66839.
8	1	1968	0.0	1745	-69 53.9	176 9.2	1767.9	5.8	227	66848.
8	1	1968	0.0	1754	-69 54.5	176 7.3	1768.8	5.5	231	66850.
8	1	1968	0.0	18 5	-69 55.1	176 5.0	1769.8	6.3	204	66853.
8	1	1968	0.0	1822	-69 56.8	176 2.9	1771.6	5.8	208	66855.
8	1	1968	0.0	1830	-69 57.5	176 1.8	1772.4	4.7	191	66856.
8	1	1968	0.0	1850	-69 59.0	176 1.0	1773.9	4.9	217	66857.
8	1	1968	0.0	19 9	-70 0.3	175 58.2	1775.5	5.4	256	66860.
8	1	1968	0.0	1930	-70 0.7	175 52.9	1777.4	5.8	297	66866.
8	1	1968	0.0	1954	-69 59.7	175 46.8	1779.7	5.1	237	66875.
8	1	1968	0.0	20 6	-70 0.2	175 44.3	1780.8	6.0	216	66878.
8	1	1968	0.0	2030	-70 2.2	175 40.2	1783.1	3.0	243	66882.
8	1	1968	0.0	21 0	-70 2.8	175 36.3	1784.6	3.8	219	66887.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
8	1	1968	0.0	2130	-70 4.3	175 32.8	1786.5	4.3	137	66890.
8	1	1968	0.0	2230	-70 7.4	175 41.4	1790.8	4.4	176	66878.
8	1	1968	0.0	2245	-70 8.5	175 41.6	1791.9	4.7	157	66877.
8	1	1968	0.0	23 4	-70 9.9	175 43.4	1793.4	3.7	158	66874.
8	1	1968	0.0	2320	-70 10.8	175 44.4	1794.4	3.7	183	66872.
9	1	1968	0.0	0 5	-70 13.6	175 44.0	1797.2	5.3	112	66871.
9	1	1968	0.0	020	-70 14.1	175 47.7	1798.5	5.7	164	66867.
9	1	1968	0.0	039	-70 15.8	175 49.1	1800.3	5.3	133	66864.
9	1	1968	0.0	1 9	-70 17.6	175 54.9	1803.0	5.7	169	66855.
9	1	1968	0.0	145	-70 21.0	175 56.9	1806.4	5.6	199	66851.
9	1	1968	0.0	2 5	-70 22.8	175 55.1	1808.2	8.8	218	66852.
9	1	1968	0.0	232	-70 25.9	175 47.9	1812.2	7.2	232	66859.
9	1	1968	0.0	3 5	-70 28.3	175 38.6	1816.1	8.4	159	66869.
9	1	1968	0.0	339	-70 32.8	175 43.8	1820.9	8.5	219	66859.
9	1	1968	0.0	350	-70 34.0	175 40.9	1822.5	10.0	211	66862.
9	1	1968	0.0	4 0	-70 35.4	175 38.3	1824.1	5.0	164	66864.
9	1	1968	0.0	430	-70 37.8	175 40.4	1826.6	5.1	184	66859.
9	1	1968	0.0	5 0	-70 40.3	175 39.9	1829.2	5.3	250	66858.
9	1	1968	0.0	530	-70 41.2	175 32.3	1831.8	3.3	223	66866.
9	1	1968	0.0	6 0	-70 42.4	175 28.9	1833.5	3.3	228	66869.
9	1	1968	0.0	630	-70 43.5	175 25.2	1835.1	3.3	250	66872.
9	1	1968	0.0	754	-70 45.1	175 11.8	1839.8	2.7	253	66887.
9	1	1968	0.0	8 0	-70 45.2	175 11.0	1840.1	2.7	207	66 88.
9	1	1968	0.0	915	-70 48.2	175 6.3	1843.5	2.4	236	66 90.
9	1	1968	0.0	930	-70 48.5	175 4.8	1844.1	2.7	258	66 92.
9	1	1968	0.0	948	-70 48.7	175 2.4	1844.9	9.9	256	66 95.
9	1	1968	0.0	1015	-70 49.8	174 49.2	1849.3	9.8	178	66 09.
9	1	1968	0.0	1045	-70 54.6	174 49.7	1854.2	10.1	204	66 03.
9	1	1968	0.0	1048	-70 55.1	174 49.0	1854.7	10.3	201	66903.
9	1	1968	0.0	11 0	-70 57.0	174 46.7	1856.8	12.4	202	66904.
9	1	1968	0.0	1113	-70 59.5	174 43.7	1859.4	12.0	220	66905.
9	1	1968	0.0	1135	-71 2.9	174 34.9	1863.8	10.7	202	66911.
9	1	1968	0.0	1211	-71 8.9	174 27.6	1870.3	12.7	228	66911.
9	1	1968	0.0	1232	-71 11.8	174 17.5	1874.7	12.9	231	66919.
9	1	1968	0.0	1240	-71 12.9	174 13.3	1876.4	7.8	272	66922.
9	1	1968	0.0	1254	-71 12.9	174 7.7	1878.3	12.1	286	66928.
9	1	1968	0.0	13 0	-71 12.5	174 4.1	1879.5	10.1	286	66933.
9	1	1968	0.0	1312	-71 12.0	173 58.1	1881.5	10.5	311	66940.
9	1	1968	0.0	1354	-71 7.2	173 40.9	1888.8	8.6	180	66965.
9	1	1968	0.0	1510	-71 18.0	173 40.7	1899.7	9.3	172	66951.
9	1	1968	0.0	1552	-71 24.5	173 43.6	1906.2	8.3	184	66938.
9	1	1968	0.0	1656	-71 33.3	173 41.8	1915.0	9.1	174	66926.
9	1	1968	0.0	1754	-71 42.0	173 44.7	1923.8	8.8	180	66909.
9	1	1968	0.0	1918	-71 54.3	173 45.0	1936.1	7.0	177	66887.
9	1	1968	0.0	1945	-71 58.4	173 45.7	1940.1	10.4	269	66879.
9	1	1968	0.0	2012	-71 58.4	173 30.6	1944.8	11.3	267	66894.
9	1	1968	0.0	2125	-71 59.2	172 46.3	1958.5	11.4	252	66937.
9	1	1968	0.0	2220	-72 2.5	172 14.2	1969.0	5.2	249	66961.
9	1	1968	0.0	2252	-72 3.5	172 5.9	1971.8	4.8	260	66967.
9	1	1968	0.0	2322	-72 3.9	171 58.2	1974.1	3.8	104	66974.
9	1	1968	0.0	2345	-72 4.2	172 2.8	1975.6	0.5	334	66968.
10	1	1968	0.0	033	-72 3.8	172 2.2	1976.0	4.8	258	66970.
10	1	1968	0.0	140	-72 4.9	171 45.3	1981.3	0.5	334	66983.
10	1	1968	0.0	212	-72 4.6	171 44.9	1981.6	9.0	349	66984.
10	1	1968	0.0	224	-72 2.9	171 43.8	1983.4	10.8	87	66989.
10	1	1968	0.0	230	-72 2.8	171 47.3	1984.5	12.9	88	66986.
10	1	1968	0.0	346	-72 2.2	172 39.6	2000.7	13.7	311	66937.
10	1	1968	0.0	350	-72 1.5	172 36.8	2001.8	13.1	272	66941.
10	1	1968	0.0	357	-72 1.4	172 31.9	2003.3	5.3	275	66946.
10	1	1968	0.0	423	-72 1.2	172 24.4	2005.7	0.5	334	66954.
10	1	1968	0.0	5 6	-72 0.8	172 23.9	2006.0	12.3	88	66955.
10	1	1968	0.0	6 8	-72 0.3	173 4.9	2018.7	12.3	89	66916.
10	1	1968	0.0	758	-71 59.8	174 17.8	2041.3	12.7	91	66843.
10	1	1968	0.0	8 7	-71 59.8	174 24.0	2043.2	0.3	140	66836.
10	1	1968	0.0	1138	-72 0.6	174 26.2	2044.2	0.9	335	66832.
10	1	1968	0.0	1545	-71 57.3	174 21.1	2047.9	10.9	86	66844.
10	1	1968	0.0	16 0	-71 57.1	174 29.9	2050.6	4.0	78	66835.
10	1	1968	0.0	1646	-71 56.5	174 39.6	2053.7	4.1	93	66826.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
10	1	1968	0.0	1650	-71 56.5	174 40.5	2054.0	10.5	91	66825.
10	1	1968	0.0	17 5	-71 56.6	174 49.0	2056.6	7.6	92	66816.
10	1	1968	0.0	1724	-71 56.6	174 56.8	2059.0	11.0	91	66807.
10	1	1968	0.0	1834	-71 56.9	175 38.3	2071.9	11.3	89	66762.
10	1	1968	0.0	1851	-71 56.8	175 48.6	2075.1	12.4	119	66750.
10	1	1968	0.0	19 1	-71 57.8	175 54.5	2077.2	10.8	180	66742.
10	1	1968	0.0	1914	-72 0.2	175 54.4	2079.5	10.4	139	66738.
10	1	1968	0.0	1931	-72 2.4	176 0.6	2082.4	11.3	160	66728.
10	1	1968	0.0	1938	-72 3.6	176 2.1	2083.8	11.3	162	66724.
10	1	1968	0.0	1955	-72 6.6	176 5.3	2086.9	10.8	131	66715.
10	1	1968	0.0	2030	-72 10.8	176 20.8	2093.2	11.4	152	66690.
10	1	1968	0.0	2047	-72 13.6	176 25.8	2096.4	10.6	117	66680.
10	1	1968	0.0	2053	-72 14.1	176 28.9	2097.5	10.8	100	66675.
10	1	1968	0.0	2115	-72 14.7	176 41.6	2101.4	10.6	89	66660.
10	1	1968	0.0	2139	-72 14.7	176 55.5	2105.7	11.6	137	66644.
10	1	1968	0.0	2158	-72 17.4	177 3.8	2109.4	11.0	90	66630.
10	1	1968	0.0	2327	-72 17.3	177 57.6	2125.8	5.6	89	66569.
10	1	1968	0.0	2340	-72 17.3	178 1.6	2127.0	12.4	254	66564.
10	1	1968	0.0	2354	-72 18.0	177 52.5	2129.9	11.4	254	66573.
11	1	1968	0.0	017	-72 19.2	177 38.7	2134.2	5.4	256	66587.
11	1	1968	0.0	027	-72 19.4	177 35.8	2135.1	0.7	51	66590.
11	1	1968	0.0	236	-72 18.5	177 39.6	2136.6	0.6	9	66587.
11	1	1968	0.0	346	-72 17.9	177 40.0	2137.2	0.6	309	66588.
11	1	1968	0.0	534	-72 17.1	177 37.0	2138.4	1.2	230	66593.
11	1	1968	0.0	758	-72 19.1	177 29.6	2141.3	0.9	338	66598.
11	1	1968	0.0	1026	-72 17.0	177 26.9	2143.6	8.9	182	66605.
11	1	1968	0.0	1044	-72 19.6	177 26.6	2146.3	9.1	180	66600.
11	1	1968	0.0	1055	-72 21.3	177 26.6	2147.9	9.6	159	66597.
11	1	1968	0.0	1114	-72 24.1	177 30.2	2151.0	10.3	148	66588.
11	1	1968	0.0	12 8	-72 32.0	177 46.4	2160.2	10.2	122	66555.
11	1	1968	0.0	13 7	-72 37.3	178 14.7	2170.2	10.7	87	66512.
11	1	1968	0.0	1316	-72 37.2	178 20.0	2171.8	11.1	87	66506.
11	1	1968	0.0	1338	-72 37.0	178 33.6	2175.9	9.8	177	66491.
11	1	1968	0.0	1418	-72 43.5	178 34.7	2182.4	9.9	178	66477.
11	1	1968	0.0	1518	-72 53.5	178 35.6	2192.4	9.5	181	66456.
11	1	1968	0.0	1527	-72 54.9	178 35.5	2193.8	9.9	142	66453.
11	1	1968	0.0	1532	-72 55.5	178 37.2	2194.6	9.7	118	66449.
11	1	1968	0.0	1547	-72 56.7	178 44.5	2197.1	10.7	95	66439.
11	1	1968	0.0	16 6	-72 57.0	178 56.0	2200.4	10.4	97	66425.
11	1	1968	0.0	1730	-72 58.6	179 45.4	2215.0	10.5	107	66364.
11	1	1968	0.0	1738	-72 59.1	179 49.9	2216.4	10.1	122	66358.
11	1	1968	0.0	1744	-72 59.6	179 52.8	2217.4	11.2	118	66354.
11	1	1968	0.0	1754	-73 0.5	179 58.5	2219.3	10.0	191	66345.
11	1	1968	0.0	18 0	-73 1.5	179 57.8	2220.3	9.0	191	66344.
11	1	1968	0.0	18 3	-73 1.9	179 57.5	2220.7	9.8	274	66343.
11	1	1968	0.0	1828	-73 1.6	179 43.6	2224.8	10.3	268	66360.
11	1	1968	0.0	1944	-73 1.9	178 59.0	2237.8	10.6	271	66411.
11	1	1968	0.0	23 2	-73 1.4	176 59.1	2272.8	5.5	272	66544.
11	1	1968	0.0	23 8	-73 1.4	176 57.2	2273.4	5.3	270	66546.
11	1	1968	0.0	2315	-73 1.4	176 55.1	2274.0	0.2	91	66549.
12	1	1968	0.0	242	-73 1.4	176 57.4	2274.7	0.7	145	66546.
12	1	1968	0.0	256	-73 1.5	176 57.7	2274.9	4.6	258	66546.
12	1	1968	0.0	312	-73 1.8	176 53.6	2276.1	1.6	297	66549.
12	1	1968	0.0	350	-73 1.3	176 50.5	2277.1	3.6	55	66554.
12	1	1968	0.0	4 8	-73 0.7	176 53.6	2278.2	0.7	145	66552.
12	1	1968	0.0	453	-73 1.1	176 54.6	2278.7	10.3	267	66550.
12	1	1968	0.0	856	-73 3.3	174 32.4	2320.2	10.5	265	66689.
12	1	1968	0.0	932	-73 3.9	174 11.0	2326.5	10.9	270	66708.
12	1	1968	0.0	946	-73 3.8	174 2.3	2329.0	6.6	267	66716.
12	1	1968	0.0	958	-73 3.9	173 57.7	2330.3	6.1	274	66721.
12	1	1968	0.0	10 6	-73 3.9	173 54.9	2331.1	0.8	104	66723.
12	1	1968	0.0	1038	-73 3.9	173 56.3	2331.6	1.0	153	66722.
12	1	1968	0.0	1040	-73 4.0	173 56.4	2331.6	5.4	100	66722.
12	1	1968	0.0	1111	-73 4.4	174 5.8	2334.4	1.0	153	66712.
12	1	1968	0.0	1212	-73 5.3	174 7.4	2335.4	5.0	143	66708.
12	1	1968	0.0	1224	-73 6.1	174 9.5	2336.4	5.0	141	66704.
12	1	1968	0.0	1256	-73 8.2	174 15.2	2339.1	4.4	188	66693.
12	1	1968	0.0	13 0	-73 8.5	174 15.1	2339.4	10.0	277	66692.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
12	1	1968	0.0	14 0	-73 7.4	173 40.8	2349.4	9.2	280	66728.
12	1	1968	0.0	14 6	-73 7.2	173 37.7	2350.3	9.1	277	66731.
12	1	1968	0.0	1430	-73 6.7	173 25.2	2353.9	9.7	283	66743.
12	1	1968	0.0	15 6	-73 5.4	173 5.8	2359.7	9.8	281	66765.
12	1	1968	0.0	1610	-73 3.4	172 30.4	2370.2	10.8	283	66802.
12	1	1968	0.0	1630	-73 2.6	172 18.4	2373.8	10.0	291	66815.
12	1	1968	0.0	1654	-73 1.1	172 5.6	2377.8	10.7	292	66830.
12	1	1968	0.0	1717	-72 59.6	171 52.6	2381.9	0.6	270	66845.
12	1	1968	0.0	1924	-72 59.6	171 48.0	2383.3	0.4	316	66849.
12	1	1968	0.0	1939	-72 59.5	171 47.7	2383.4	3.4	289	66850.
12	1	1968	0.0	1951	-72 59.3	171 45.5	2384.1	2.6	307	66852.
12	1	1968	0.0	2030	-72 58.3	171 41.0	2385.7	0.4	316	66859.
12	1	1968	0.0	2240	-72 57.7	171 38.9	2386.6	7.8	277	66862.
12	1	1968	0.0	2248	-72 57.6	171 35.3	2387.7	10.8	212	66866.
12	1	1968	0.0	2310	-73 0.9	171 28.1	2391.6	9.6	161	66863.
12	1	1968	0.0	2322	-73 2.7	171 30.3	2393.5	9.6	130	66856.
12	1	1968	0.0	2334	-73 4.0	171 35.3	2395.5	10.1	119	66848.
12	1	1968	0.0	2350	-73 5.3	171 43.4	2398.2	10.4	112	66838.
13	1	1968	0.0	0 4	-73 6.2	171 51.1	2400.6	10.4	110	66828.
13	1	1968	0.0	030	-73 7.8	172 5.7	2405.1	7.1	116	66812.
13	1	1968	0.0	049	-73 8.8	172 12.7	2407.4	0.6	344	66803.
13	1	1968	0.0	145	-73 8.2	172 12.1	2408.0	8.0	213	66805.
13	1	1968	0.0	150	-73 8.7	172 10.8	2408.6	10.3	223	66805.
13	1	1968	0.0	242	-73 15.3	171 49.8	2417.6	10.5	225	66804.
13	1	1968	0.0	348	-73 23.5	171 21.3	2429.2	10.4	222	66803.
13	1	1968	0.0	358	-73 24.8	171 17.3	2430.9	10.2	170	66803.
13	1	1968	0.0	433	-73 30.7	171 21.0	2436.8	9.7	113	66782.
13	1	1968	0.0	5 1	-73 32.4	171 35.7	2441.4	10.6	134	66764.
13	1	1968	0.0	512	-73 33.8	171 40.7	2443.3	9.9	180	66756.
13	1	1968	0.0	528	-73 36.4	171 40.6	2445.9	10.3	176	66748.
13	1	1968	0.0	537	-73 38.0	171 41.1	2447.5	10.7	222	66743.
13	1	1968	0.0	643	-73 46.7	171 13.1	2459.2	10.8	181	66737.
13	1	1968	0.0	7 8	-73 51.1	171 12.9	2463.7	10.5	222	66722.
13	1	1968	0.0	714	-73 51.9	171 10.3	2464.7	10.0	228	66722.
13	1	1968	0.0	720	-73 52.6	171 7.7	2465.7	9.7	200	66722.
13	1	1968	0.0	735	-73 54.9	171 4.7	2468.2	9.6	228	66716.
13	1	1968	0.0	8 5	-73 58.1	170 51.8	2473.0	8.5	177	66715.
13	1	1968	0.0	8 6	-73 58.2	170 51.8	2473.1	9.5	180	66714.
13	1	1968	0.0	815	-73 59.6	170 51.8	2474.5	7.2	271	66710.
13	1	1968	0.0	820	-73 59.6	170 49.6	2475.1	0.1	358	66711.
13	1	1968	0.0	1052	-73 59.3	170 49.6	2475.5	0.7	57	66712.
13	1	1968	0.0	11 5	-73 59.2	170 50.1	2475.6	2.9	67	66712.
13	1	1968	0.0	12 0	-73 58.1	170 58.9	2478.3	0.7	56	66709.
13	1	1968	0.0	1215	-73 58.0	170 59.4	2478.5	4.2	68	66709.
13	1	1968	0.0	1230	-73 57.6	171 3.0	2479.5	3.2	76	66708.
13	1	1968	0.0	1310	-73 57.1	171 10.4	2481.6	0.5	204	66704.
13	1	1968	0.0	1337	-73 57.3	171 10.1	2481.9	10.5	92	66704.
13	1	1968	0.0	14 0	-73 57.5	171 24.6	2485.9	10.6	97	66692.
13	1	1968	0.0	15 2	-73 58.9	172 3.8	2496.8	10.5	91	66656.
13	1	1968	0.0	16 2	-73 59.1	172 42.0	2507.3	10.4	89	66625.
13	1	1968	0.0	1750	-73 58.7	173 50.1	2526.1	10.5	89	66569.
13	1	1968	0.0	1852	-73 58.6	174 29.5	2537.0	10.0	94	66534.
13	1	1968	0.0	1938	-73 59.0	174 57.2	2544.7	10.2	92	66508.
13	1	1968	0.0	20 0	-73 59.2	175 10.8	2548.4	10.4	87	66495.
13	1	1968	0.0	2120	-73 58.4	176 1.0	2562.3	8.4	86	66450.
13	1	1968	0.0	2135	-73 58.3	176 8.6	2564.4	0.7	321	66444.
13	1	1968	0.0	2226	-73 57.8	176 7.1	2565.0	0.3	61	66447.
14	1	1968	0.0	150	-73 57.3	176 10.4	2566.1	2.1	132	66445.
14	1	1968	0.0	250	-73 58.7	176 16.0	2568.1	0.3	61	66435.
14	1	1968	0.0	317	-73 58.6	176 16.5	2568.3	3.9	136	66435.
14	1	1968	0.0	336	-73 59.5	176 19.6	2569.5	4.8	145	66429.
14	1	1968	0.0	4 4	-74 1.3	176 24.2	2571.7	1.0	164	66419.
14	1	1968	0.0	4 5	-74 1.3	176 24.2	2571.8	6.3	99	66419.
14	1	1968	0.0	422	-74 1.6	176 30.7	2573.6	10.5	95	66412.
14	1	1968	0.0	436	-74 1.8	176 39.5	2576.0	10.7	94	66403.
14	1	1968	0.0	6 4	-74 2.9	177 36.7	2591.8	7.3	96	66343.
14	1	1968	0.0	620	-74 3.1	177 43.8	2593.7	9.8	90	66335.
14	1	1968	0.0	642	-74 3.2	177 56.8	2597.3	9.8	80	66322.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
14	1	1968	0.0	818	-74 0.5	178 52.8	2612.9	4.9	81	66271.
14	1	1968	0.0	830	-74 0.4	178 56.3	2613.9	2.9	71	66268.
14	1	1968	0.0	852	-74 0.0	179 0.0	2615.0	2.7	64	66265.
14	1	1968	0.0	910	-73 59.6	179 2.7	2615.8	0.4	298	66263.
14	1	1968	0.0	1015	-73 59.4	179 1.2	2616.2	5.6	109	66265.
14	1	1968	0.0	1115	-74 1.3	179 20.4	2621.8	7.0	203	66240.
14	1	1968	0.0	1132	-74 3.1	179 17.5	2623.8	7.2	201	66238.
14	1	1968	0.0	1215	-74 7.9	179 10.8	2628.9	0.2	241	66231.
14	1	1968	0.0	1322	-74 8.0	179 10.0	2629.2	1.2	332	66232.
14	1	1968	0.0	1355	-74 7.4	179 8.9	2629.9	6.0	69	66235.
14	1	1968	0.0	1418	-74 6.6	179 16.7	2632.2	10.3	60	66229.
14	1	1968	0.0	1426	-74 5.9	179 21.1	2633.5	10.2	66	66226.
14	1	1968	0.0	1710	-73 54.5	-179 7.0	2661.3	9.7	67	66156.
14	1	1968	0.0	18 2	-73 51.2	-178 39.2	2669.7	10.3	66	66132.
14	1	1968	0.0	1852	-73 47.7	-178 11.1	2678.3	10.4	71	66108.
14	1	1968	0.0	19 0	-73 47.3	-178 6.5	2679.6	8.5	72	66104.
14	1	1968	0.0	1915	-73 46.6	-177 59.3	2681.8	7.3	243	66097.
14	1	1968	0.0	1948	-73 48.4	-178 11.9	2685.8	1.5	180	66107.
14	1	1968	0.0	2052	-73 50.0	-178 12.0	2687.3	4.1	313	66103.
14	1	1968	0.0	2137	-73 48.0	-178 20.0	2690.4	1.5	181	66118.
14	1	1968	0.0	2144	-73 48.1	-178 20.0	2690.6	6.9	188	66118.
14	1	1968	0.0	2155	-73 49.4	-178 20.7	2691.8	14.5	189	66115.
14	1	1968	0.0	22 7	-73 52.2	-178 22.3	2694.7	11.4	180	66110.
14	1	1968	0.0	2218	-73 54.3	-178 22.3	2696.8	10.0	177	66105.
14	1	1968	0.0	2227	-73 55.8	-178 22.0	2698.3	10.0	169	66101.
14	1	1968	0.0	2238	-73 57.6	-178 20.8	2700.1	11.1	177	66094.
14	1	1968	0.0	2257	-74 1.1	-178 20.2	2703.7	10.9	136	66085.
14	1	1968	0.0	2345	-74 7.4	-177 58.2	2712.4	7.4	135	66043.
15	1	1968	0.0	015	-74 10.1	-177 48.6	2716.1	0.5	97	66024.
15	1	1968	0.0	1 0	-74 10.1	-177 47.2	2716.5	1.9	68	66023.
15	1	1968	0.0	140	-74 9.6	-177 42.8	2717.8	5.4	166	66019.
15	1	1968	0.0	150	-74 10.5	-177 42.1	2718.7	9.7	175	66016.
15	1	1968	0.0	239	-74 18.4	-177 39.3	2726.6	10.7	125	65991.
15	1	1968	0.0	250	-74 19.5	-177 33.4	2728.5	10.7	132	65981.
15	1	1968	0.0	325	-74 23.7	-177 16.2	2734.8	10.7	155	65949.
15	1	1968	0.0	354	-74 28.4	-177 8.1	2740.0	10.4	159	65927.
15	1	1968	0.0	428	-74 33.9	-177 0.0	2745.9	10.7	173	65902.
15	1	1968	0.0	5 0	-74 39.6	-176 57.5	2751.6	10.6	144	65882.
15	1	1968	0.0	520	-74 42.4	-176 49.6	2755.1	10.6	120	65865.
15	1	1968	0.0	546	-74 44.7	-176 34.6	2759.7	10.7	134	65841.
15	1	1968	0.0	6 0	-74 46.4	-176 27.8	2762.2	12.3	154	65827.
15	1	1968	0.0	6 9	-74 48.1	-176 24.7	2764.0	9.3	163	65819.
15	1	1968	0.0	620	-74 49.7	-176 22.8	2765.7	9.5	163	65812.
15	1	1968	0.0	631	-74 51.4	-176 20.9	2767.5	11.1	130	65804.
15	1	1968	0.0	730	-74 58.4	-175 49.0	2778.3	10.6	129	65746.
15	1	1968	0.0	9 0	-75 8.4	-175 0.9	2794.3	10.4	164	65659.
15	1	1968	0.0	927	-75 12.9	-174 55.7	2799.0	10.9	137	65638.
15	1	1968	0.0	10 5	-75 17.9	-174 37.2	2805.8	10.4	159	65601.
15	1	1968	0.0	1041	-75 23.7	-174 28.2	2812.1	9.2	124	65571.
15	1	1968	0.0	1045	-75 24.1	-174 26.2	2812.7	5.4	123	65568.
15	1	1968	0.0	11 0	-75 24.8	-174 21.7	2814.0	0.3	78	65560.
15	1	1968	0.0	11 2	-75 24.8	-174 21.7	2814.0	0.7	73	65560.
15	1	1968	0.0	16 4	-75 23.8	-174 7.9	2817.6	1.0	133	65547.
15	1	1968	0.0	1715	-75 24.5	-174 4.7	2818.8	4.1	291	65541.
15	1	1968	0.0	1740	-75 23.9	-174 11.1	2820.5	2.1	287	65550.
15	1	1968	0.0	1856	-75 23.1	-174 21.2	2823.2	3.4	293	65565.
15	1	1968	0.0	19 0	-75 23.0	-174 22.0	2823.4	7.4	303	65566.
15	1	1968	0.0	1924	-75 21.4	-174 31.8	2826.3	10.3	309	65583.
15	1	1968	0.0	1952	-75 18.4	-174 46.6	2831.1	10.0	308	65610.
15	1	1968	0.0	2328	-74 56.2	-176 36.2	2867.0	10.8	309	65807.
15	1	1968	0.0	2353	-74 53.4	-176 49.7	2871.5	7.3	308	65832.
16	1	1968	0.0	0 5	-74 52.5	-176 54.2	2873.0	0.9	293	65839.
16	1	1968	0.0	115	-74 52.1	-176 57.8	2874.0	10.5	131	65845.
16	1	1968	0.0	2 0	-74 57.3	-176 35.1	2881.9	9.8	132	65803.
16	1	1968	0.0	245	-75 2.2	-176 13.8	2889.2	0.9	293	65763.
16	1	1968	0.0	3 4	-75 2.1	-176 14.8	2889.5	0.4	282	65765.
16	1	1968	0.0	616	-75 1.8	-176 20.0	2890.9	1.3	212	65771.
16	1	1968	0.0	915	-75 5.0	-176 27.7	2894.7	3.0	291	65770.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
16	1	1968	0.0	1018	-75 3.9	-176 39.0	2897.8	2.4	294	65786.
16	1	1968	0.0	1025	-75 3.8	-176 40.0	2898.1	7.9	263	65788.
16	1	1968	0.0	1035	-75 4.0	-176 45.0	2899.4	8.1	263	65793.
16	1	1968	0.0	1130	-75 4.9	-177 13.7	2906.8	7.3	264	65822.
16	1	1968	0.0	1225	-75 5.6	-177 39.4	2913.5	9.9	268	65848.
16	1	1968	0.0	1434	-75 6.5	-179 1.9	2934.7	10.7	271	65933.
16	1	1968	0.0	1448	-75 6.4	-179 11.7	2937.2	10.5	278	65944.
16	1	1968	0.0	1534	-75 5.2	-179 42.6	2945.3	10.0	276	65980.
16	1	1968	0.0	1652	-75 4.0	179 27.0	2958.3	10.2	277	66035.
16	1	1968	0.0	1844	-75 1.8	178 14.1	2977.2	10.4	278	66114.
16	1	1968	0.0	1954	-75 0.1	177 27.6	2989.4	10.6	280	66163.
16	1	1968	0.0	20 8	-74 59.6	177 18.2	2991.8	11.2	267	66174.
16	1	1968	0.0	2040	-74 59.9	176 55.2	2997.8	6.1	268	66194.
16	1	1968	0.0	21 0	-75 0.0	176 47.4	2999.8	0.1	298	66200.
16	1	1968	0.0	2322	-74 59.9	176 46.4	3000.1	0.7	296	66202.
16	1	1968	0.0	2350	-74 59.7	176 45.2	3000.5	2.6	277	66203.
17	1	1968	0.0	025	-74 59.5	176 39.5	3002.0	0.7	295	66209.
17	1	1968	0.0	135	-74 59.2	176 36.5	3002.8	4.4	347	66213.
17	1	1968	0.0	214	-74 56.4	176 34.0	3005.7	3.8	353	66226.
17	1	1968	0.0	255	-74 53.8	176 32.8	3008.2	0.2	208	66236.
17	1	1968	0.0	256	-74 53.8	176 32.8	3008.2	10.6	269	66236.
17	1	1968	0.0	342	-74 54.0	176 1.5	3016.4	10.5	260	66264.
17	1	1968	0.0	345	-74 54.1	175 59.5	3016.9	11.0	258	66265.
17	1	1968	0.0	4 4	-74 54.8	175 46.5	3020.4	11.0	264	66274.
17	1	1968	0.0	628	-74 57.6	174 5.5	3046.8	11.0	264	66348.
17	1	1968	0.0	744	-74 59.2	173 12.1	3060.7	10.6	265	66383.
17	1	1968	0.0	8 2	-74 59.5	172 59.9	3063.9	10.4	271	66391.
17	1	1968	0.0	913	-74 59.3	172 12.2	3076.2	6.8	270	66427.
17	1	1968	0.0	930	-74 59.3	172 4.8	3078.2	1.9	50	66433.
17	1	1968	0.0	1030	-74 58.1	172 10.3	3080.0	0.5	147	66434.
17	1	1968	0.0	1112	-74 58.4	172 11.1	3080.4	0.7	343	66432.
17	1	1968	0.0	1258	-74 57.2	172 9.8	3081.6	0.2	225	66438.
17	1	1968	0.0	1446	-74 57.5	172 8.6	3082.0	0.3	16	66437.
17	1	1968	0.0	1545	-74 57.3	172 9.0	3082.3	7.7	272	66438.
17	1	1968	0.0	1556	-74 57.2	172 3.5	3083.7	8.1	270	66442.
17	1	1968	0.0	16 5	-74 57.2	171 58.8	3084.9	7.4	244	66446.
17	1	1968	0.0	1620	-74 58.0	171 52.4	3086.8	7.6	295	66447.
17	1	1968	0.0	1814	-74 52.0	171 2.2	3101.1	7.5	295	66506.
17	1	1968	0.0	19 2	-74 49.4	170 41.4	3107.2	7.6	295	66531.
17	1	1968	0.0	2232	-74 38.1	169 10.4	3133.7	7.4	298	66636.
18	1	1968	0.0	025	-74 31.6	168 23.8	3147.7	3.8	185	66691.
18	1	1968	0.0	035	-74 32.2	168 23.6	3148.3	0.4	6	66689.
18	1	1968	0.0	110	-74 31.9	168 23.7	3148.6	8.2	298	66690.
18	1	1968	0.0	140	-74 30.0	168 10.1	3152.7	0.4	6	66705.
18	1	1968	0.0	145	-74 30.0	168 10.1	3152.7	1.7	136	66705.
18	1	1968	0.0	316	-74 31.8	168 16.8	3155.3	2.0	141	66694.
18	1	1968	0.0	325	-74 32.1	168 17.5	3155.5	0.1	52	66693.
18	1	1968	0.0	330	-74 32.1	168 17.6	3155.6	5.9	179	66693.
18	1	1968	0.0	338	-74 32.9	168 17.6	3156.3	5.0	187	66690.
18	1	1968	0.0	5 2	-74 39.8	168 14.4	3163.3	5.1	183	66663.
18	1	1968	0.0	510	-74 40.5	168 14.3	3164.0	8.9	185	66661.
18	1	1968	0.0	615	-74 50.1	168 11.1	3173.6	9.8	158	66623.
18	1	1968	0.0	620	-74 50.8	168 12.3	3174.5	5.1	129	66619.
18	1	1968	0.0	652	-74 52.6	168 20.4	3177.2	5.0	139	66607.
18	1	1968	0.0	740	-74 55.5	168 30.5	3181.2	7.0	182	66588.
18	1	1968	0.0	825	-75 0.8	168 29.9	3186.4	0.6	201	66566.
18	1	1968	0.0	11 0	-75 2.2	168 27.7	3188.0	2.0	107	66561.
18	1	1968	0.0	1130	-75 2.5	168 31.3	3188.9	1.8	91	66558.
18	1	1968	0.0	1140	-75 2.5	168 32.5	3189.2	0.3	265	66557.
18	1	1968	0.0	1155	-75 2.5	168 32.2	3189.3	4.2	90	66558.
18	1	1968	0.0	1320	-75 2.5	168 55.3	3195.3	0.3	270	66544.
18	1	1968	0.0	1321	-75 2.5	168 55.2	3195.3	10.9	275	66544.
18	1	1968	0.0	14 0	-75 2.0	168 27.8	3202.4	10.5	274	66562.
18	1	1968	0.0	1430	-75 1.6	168 7.6	3207.6	10.6	310	66576.
18	1	1968	0.0	1450	-74 59.3	167 57.1	3211.2	5.8	310	66591.
18	1	1968	0.0	1455	-74 59.0	167 55.7	3211.6	7.8	310	66593.
18	1	1968	0.0	1510	-74 57.7	167 49.9	3213.6	9.6	330	66602.
18	1	1968	0.0	1542	-74 53.3	167 40.1	3218.7	4.1	164	66627.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
18	1	1968	0.0	1615	-74 55.5	167 42.5	3221.0	9.2	115	66616.
18	1	1968	0.0	1635	-74 56.8	167 53.1	3224.0	9.8	125	66604.
18	1	1968	0.0	1640	-74 57.2	167 55.7	3224.9	9.0	135	66601.
18	1	1968	0.0	1646	-74 57.9	167 58.1	3225.8	9.3	132	66597.
18	1	1968	0.0	1655	-74 58.8	168 2.1	3227.1	9.4	161	66591.
18	1	1968	0.0	1710	-75 1.0	168 5.0	3229.5	9.7	186	66579.
18	1	1968	0.0	1721	-75 2.8	168 4.3	3231.3	9.6	196	66572.
18	1	1968	0.0	1730	-75 4.2	168 2.7	3232.7	9.6	201	66567.
18	1	1968	0.0	1810	-75 10.1	167 54.1	3239.1	9.3	185	66546.
18	1	1968	0.0	1825	-75 12.5	167 53.2	3241.4	9.3	180	66536.
18	1	1968	0.0	1836	-75 14.2	167 53.2	3243.1	8.0	187	66528.
18	1	1968	0.0	1857	-75 17.0	167 51.8	3245.9	9.1	210	66516.
18	1	1968	0.0	1920	-75 20.0	167 45.0	3249.4	9.9	198	66506.
18	1	1968	0.0	1939	-75 23.0	167 41.1	3252.6	10.2	208	66494.
18	1	1968	0.0	2046	-75 33.0	167 19.5	3264.0	10.4	188	66459.
18	1	1968	0.0	21 3	-75 35.9	167 17.8	3266.9	10.5	178	66445.
18	1	1968	0.0	22 5	-75 46.7	167 19.4	3277.7	11.0	168	66393.
18	1	1968	0.0	2235	-75 52.1	167 24.1	3283.2	10.2	158	66364.
18	1	1968	0.0	2248	-75 54.2	167 27.5	3285.4	10.1	161	66352.
18	1	1968	0.0	2254	-75 55.1	167 28.9	3286.4	10.1	90	66347.
19	1	1968	0.0	0 2	-75 55.1	168 15.8	3297.8	9.5	90	66324.
19	1	1968	0.0	0 7	-75 55.1	168 19.0	3298.6	1.6	92	66322.
19	1	1968	0.0	035	-75 55.2	168 22.2	3299.4	0.7	274	66321.
19	1	1968	0.0	036	-75 55.2	168 22.1	3299.4	0.2	275	66321.
19	1	1968	0.0	130	-75 55.1	168 21.4	3299.6	9.0	93	66321.
19	1	1968	0.0	418	-75 56.4	170 5.1	3324.8	9.2	92	66258.
19	1	1968	0.0	526	-75 56.8	170 47.9	3335.2	9.5	92	66231.
19	1	1968	0.0	555	-75 57.0	171 6.7	3339.8	9.1	107	66219.
19	1	1968	0.0	6 2	-75 57.3	171 10.9	3340.8	9.5	103	66215.
19	1	1968	0.0	7 6	-75 59.7	171 51.4	3350.9	8.9	105	66178.
19	1	1968	0.0	721	-76 0.3	172 0.2	3353.2	0.4	17	66170.
19	1	1968	0.0	1045	-75 58.8	172 2.0	3354.6	1.9	123	66176.
19	1	1968	0.0	1124	-75 59.5	172 6.3	3355.9	1.6	154	66170.
19	1	1968	0.0	1140	-75 59.9	172 7.1	3356.3	0.8	271	66167.
19	1	1968	0.0	1150	-75 59.9	172 6.6	3356.4	3.9	143	66168.
19	1	1968	0.0	1310	-76 4.1	172 19.7	3361.7	9.5	88	66139.
19	1	1968	0.0	1346	-76 3.8	172 43.3	3367.4	10.0	86	66125.
19	1	1968	0.0	1454	-76 3.0	173 30.3	3378.7	10.1	87	66096.
19	1	1968	0.0	1538	-76 2.7	174 0.9	3386.1	10.0	88	66076.
19	1	1968	0.0	1642	-76 2.3	174 45.2	3396.8	10.0	86	66046.
19	1	1968	0.0	1742	-76 1.6	175 26.7	3406.8	10.2	87	66017.
19	1	1968	0.0	19 8	-76 0.8	176 26.9	3421.4	10.1	88	65973.
19	1	1968	0.0	2115	-75 60.0	177 55.3	3442.8	7.9	88	65902.
19	1	1968	0.0	2122	-75 59.9	177 59.1	3443.7	7.8	82	65899.
19	1	1968	0.0	2142	-75 59.6	178 9.8	3446.3	0.8	342	65891.
19	1	1968	0.0	2312	-75 58.4	178 8.2	3447.6	0.1	85	65898.
19	1	1968	0.0	2350	-75 58.4	178 8.4	3447.6	2.0	90	65898.
20	1	1968	0.0	052	-75 58.4	178 17.0	3449.7	0.1	85	65890.
20	1	1968	0.0	2 5	-75 58.4	178 17.5	3449.8	4.0	159	65890.
20	1	1968	0.0	250	-76 1.2	178 22.0	3452.8	10.9	90	65874.
20	1	1968	0.0	330	-76 1.2	178 52.0	3460.1	10.4	87	65847.
20	1	1968	0.0	432	-76 0.6	179 36.5	3470.9	10.2	87	65809.
20	1	1968	0.0	516	-76 0.2	-179 52.5	3478.4	10.6	91	65782.
20	1	1968	0.0	612	-76 0.3	-179 11.5	3488.3	10.4	90	65742.
20	1	1968	0.0	732	-76 0.1	-178 14.1	3502.1	11.0	90	65686.
20	1	1968	0.0	911	-76 0.2	-176 58.8	3520.4	8.8	90	65609.
20	1	1968	0.0	923	-76 0.2	-176 51.6	3522.1	0.3	98	65601.
20	1	1968	0.0	11 6	-76 0.3	-176 49.7	3522.6	1.1	156	65599.
20	1	1968	0.0	1135	-76 0.8	-176 48.8	3523.1	2.7	113	65596.
20	1	1968	0.0	1220	-76 1.5	-176 41.2	3525.1	1.1	156	65585.
20	1	1968	0.0	14 8	-76 3.3	-176 37.7	3527.1	0.5	101	65575.
20	1	1968	0.0	1434	-76 3.4	-176 36.8	3527.4	8.7	195	65574.
20	1	1968	0.0	1554	-76 14.6	-176 49.7	3538.9	8.6	200	65543.
20	1	1968	0.0	1816	-76 33.7	-177 18.9	3559.3	8.8	200	65493.
20	1	1968	0.0	1926	-76 43.3	-177 33.8	3569.5	9.1	197	65466.
20	1	1968	0.0	1944	-76 46.0	-177 37.3	3572.2	9.6	189	65458.
20	1	1968	0.0	1957	-76 48.0	-177 38.7	3574.3	9.1	201	65450.
20	1	1968	0.0	2138	-77 2.3	-178 3.2	3589.6	0.4	161	65408.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
20	1	1968	0.0	23 0	-77 2.8	-178 2.3	3590.2	1.0	206	65404.
21	1	1968	0.0	0 0	-77 3.8	-178 4.3	3591.2	0.2	338	65402.
21	1	1968	0.0	225	-77 3.3	-178 5.1	3591.7	2.0	275	65404.
21	1	1968	0.0	320	-77 3.2	-178 13.4	3593.6	0.2	338	65413.
21	1	1968	0.0	4 0	-77 3.1	-178 13.6	3593.7	8.2	274	65414.
21	1	1968	0.0	426	-77 2.8	-178 29.5	3597.3	8.4	266	65429.
21	1	1968	0.0	518	-77 3.3	-179 2.0	3604.6	7.5	274	65456.
21	1	1968	0.0	530	-77 3.1	-179 8.6	3606.1	7.8	274	65463.
21	1	1968	0.0	614	-77 2.7	-179 34.0	3611.8	8.4	273	65487.
21	1	1968	0.0	7 6	-77 2.4	179 53.6	3619.1	8.6	271	65517.
21	1	1968	0.0	1014	-77 1.8	177 53.6	3646.0	8.8	273	65618.
21	1	1968	0.0	1134	-77 1.2	177 1.2	3657.8	8.6	271	65661.
21	1	1968	0.0	1213	-77 1.1	176 36.3	3663.3	6.4	270	65681.
21	1	1968	0.0	1320	-77 1.1	176 4.3	3670.5	6.4	276	65704.
21	1	1968	0.0	1424	-77 0.4	175 34.1	3677.4	7.5	275	65729.
21	1	1968	0.0	15 4	-76 59.9	175 11.8	3682.4	7.4	277	65747.
21	1	1968	0.0	1524	-76 59.6	175 0.9	3684.9	7.8	271	65756.
21	1	1968	0.0	1650	-76 59.5	174 11.1	3696.1	8.0	272	65791.
21	1	1968	0.0	1742	-76 59.3	173 40.3	3703.0	8.6	268	65812.
21	1	1968	0.0	1745	-76 59.3	173 38.4	3703.4	7.6	271	65813.
21	1	1968	0.0	1834	-76 59.2	173 10.8	3709.7	7.0	272	65831.
21	1	1968	0.0	20 0	-76 58.8	172 26.0	3719.8	7.9	269	65860.
21	1	1968	0.0	2210	-76 59.1	171 9.8	3736.9	8.7	266	65902.
21	1	1968	0.0	2312	-76 59.8	170 29.9	3745.9	11.3	266	65920.
21	1	1968	0.0	2352	-77 0.3	169 56.6	3753.4	12.0	266	65934.
21	1	1968	0.0	2358	-77 0.3	169 51.3	3754.6	11.1	267	65936.
22	1	1968	0.0	2 0	-77 1.7	168 11.0	3777.2	8.1	269	65976.
22	1	1968	0.0	210	-77 1.7	168 4.9	3778.6	8.0	273	65978.
22	1	1968	0.0	220	-77 1.6	167 59.0	3779.9	0.4	10	65981.
22	1	1968	0.0	229	-77 1.5	167 59.0	3780.0	10.8	88	65982.
22	1	1968	0.0	317	-77 1.2	168 37.6	3788.6	0.4	10	65967.
22	1	1968	0.0	334	-77 1.1	168 37.7	3788.8	0.6	77	65967.
22	1	1968	0.0	524	-77 0.8	168 42.2	3789.8	0.6	235	65967.
22	1	1968	0.0	655	-77 1.4	168 38.7	3790.7	2.6	249	65965.
22	1	1968	0.0	732	-77 1.9	168 32.2	3792.3	1.8	257	65965.
22	1	1968	0.0	815	-77 2.2	168 26.5	3793.6	0.2	30	65966.
22	1	1968	0.0	9 0	-77 2.1	168 26.8	3793.8	3.9	257	65966.
22	1	1968	0.0	945	-77 2.8	168 14.2	3796.7	10.1	261	65968.
22	1	1968	0.0	955	-77 3.0	168 6.8	3798.3	9.9	215	65970.
22	1	1968	0.0	1038	-77 8.8	167 48.6	3805.4	9.7	225	65945.
22	1	1968	0.0	1058	-77 11.1	167 38.2	3808.7	9.9	256	65936.
22	1	1968	0.0	1125	-77 12.2	167 18.8	3813.1	9.9	286	65937.
22	1	1968	0.0	1157	-77 10.7	166 55.9	3818.4	10.0	293	65954.
22	1	1968	0.0	1212	-77 9.8	166 45.5	3820.9	9.9	266	65964.
22	1	1968	0.0	1230	-77 10.0	166 32.2	3823.8	10.4	281	65968.
22	1	1968	0.0	13 2	-77 8.9	166 7.7	3829.4	10.2	280	65982.
22	1	1968	0.0	1320	-77 8.4	165 54.2	3832.4	7.9	281	65990.
22	1	1968	0.0	1345	-77 7.8	165 39.6	3835.7	0.2	82	65999.
22	1	1968	0.0	1350	-77 7.8	165 39.7	3835.8	3.2	88	65999.
22	1	1968	0.0	1450	-77 7.6	165 54.3	3839.0	0.2	83	65995.
22	1	1968	0.0	1525	-77 7.6	165 54.9	3839.2	8.9	173	65994.
22	1	1968	0.0	16 0	-77 12.8	165 57.6	3844.4	9.3	182	65963.
22	1	1968	0.0	16 4	-77 13.4	165 57.5	3845.0	9.6	181	65960.
22	1	1968	0.0	1646	-77 20.1	165 57.2	3851.7	10.1	186	65920.
22	1	1968	0.0	1752	-77 31.1	165 51.6	3862.7	9.2	191	65856.
22	1	1968	0.0	1820	-77 35.3	165 47.8	3867.0	9.2	178	65832.
22	1	1968	0.0	1835	-77 37.6	165 48.1	3869.3	8.8	152	65817.
22	1	1968	0.0	1850	-77 39.5	165 53.0	3871.5	9.2	176	65804.
22	1	1968	0.0	19 0	-77 41.1	165 53.5	3873.1	7.9	153	65794.
22	1	1968	0.0	19 9	-77 42.1	165 56.0	3874.2	5.9	141	65787.
22	1	1968	0.0	1930	-77 43.7	166 2.2	3876.3	5.1	142	65775.
22	1	1968	0.0	1940	-77 44.4	166 4.7	3877.2	5.0	124	65770.
22	1	1968	0.0	20 6	-77 45.6	166 13.1	3879.3	5.9	120	65760.
22	1	1968	0.0	2035	-77 47.0	166 24.8	3882.1	11.2	140	65748.
22	1	1968	0.0	2112	-77 52.3	166 45.8	3889.1	0.1	314	65708.
23	1	1968	0.0	1144	-77 50.8	166 38.4	3891.2	0.0	289	65720.
23	1	1968	0.0	14 4	-77 50.7	166 38.0	3891.3	1.1	349	65720.
23	1	1968	0.0	2127	-77 42.9	166 30.8	3899.3	1.8	330	65771.

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DAY	MON	YEAR	TZ	TIME	LATITUOE	LONGITUDE	OISTANCE	SPEED	COURSE	REGIONAL MAG
23	1	1968	0.0	2141	-77 42.5	166 29.8	3899.7	10.7	309	65774.
23	1	1968	0.0	22 0	-77 40.4	166 17.4	3903.1	10.8	323	65791.
23	1	1968	0.0	2222	-77 37.3	166 6.2	3907.1	11.1	341	65814.
23	1	1968	0.0	2310	-77 28.9	165 52.6	3915.9	5.6	16	65869.
23	1	1968	0.0	2354	-77 25.0	165 57.9	3920.0	6.7	17	65891.
24	1	1968	0.0	022	-77 22.0	166 2.2	3923.2	6.6	13	65907.
24	1	1968	0.0	032	-77 20.9	166 3.3	3924.3	7.3	15	65913.
24	1	1968	0.0	1 0	-77 17.6	166 7.5	3927.7	7.1	33	65932.
24	1	1968	0.0	130	-77 14.6	166 16.1	3931.2	6.4	61	65946.
24	1	1968	0.0	2 0	-77 13.1	166 28.9	3934.4	6.7	53	65951.
24	1	1968	0.0	230	-77 11.0	166 40.8	3937.8	5.2	103	65958.
24	1	1968	0.0	3 0	-77 11.6	166 52.3	3940.4	5.1	108	65951.
24	1	1968	0.0	330	-77 12.4	167 3.1	3942.9	4.6	124	65942.
24	1	1968	0.0	4 0	-77 13.7	167 11.8	3945.2	4.2	139	65931.
24	1	1968	0.0	435	-77 15.6	167 19.2	3947.7	6.2	65	65918.
24	1	1968	0.0	447	-77 15.0	167 24.4	3948.9	1.7	7	65919.
24	1	1968	0.0	448	-77 15.0	167 24.4	3949.0	10.8	72	65919.
24	1	1968	0.0	534	-77 12.4	167 59.9	3957.3	9.9	79	65920.
24	1	1968	0.0	613	-77 11.2	168 28.5	3963.7	10.6	89	65914.
24	1	1968	0.0	736	-77 11.0	169 34.7	3978.4	10.3	88	65885.
24	1	1968	0.0	8 0	-77 10.9	169 53.2	3982.5	10.6	107	65877.
24	1	1968	0.0	920	-77 15.2	170 54.4	3996.7	11.1	68	65822.
24	1	1968	0.0	932	-77 14.3	171 3.7	3998.9	10.3	107	65822.
24	1	1968	0.0	949	-77 15.2	171 16.4	4001.8	9.2	109	65810.
24	1	1968	0.0	10 0	-77 15.8	171 23.6	4003.5	12.1	107	65803.
24	1	1968	0.0	1017	-77 16.8	171 38.4	4007.0	10.4	119	65789.
24	1	1968	0.0	1058	-77 20.3	172 6.8	4014.1	10.4	119	65754.
24	1	1968	0.0	1114	-77 21.6	172 17.9	4016.9	10.7	107	65741.
24	1	1968	0.0	1159	-77 24.0	172 53.1	4024.9	10.6	101	65707.
24	1	1968	0.0	1214	-77 24.5	173 5.1	4027.6	10.8	95	65697.
24	1	1968	0.0	1242	-77 24.9	173 28.1	4032.6	10.1	92	65681.
24	1	1968	0.0	1324	-77 25.1	174 0.6	4039.7	10.1	115	65660.
24	1	1968	0.0	1335	-77 25.9	174 8.4	4041.6	9.8	125	65651.
24	1	1968	0.0	1430	-77 31.1	174 42.2	4050.5	10.5	124	65601.
24	1	1968	0.0	1451	-77 33.1	174 56.4	4054.2	8.4	123	65581.
24	1	1968	0.0	1453	-77 33.3	174 57.5	4054.5	5.4	161	65579.
24	1	1968	0.0	15 2	-77 34.0	174 58.7	4055.3	5.5	184	65574.
24	1	1968	0.0	15 5	-77 34.3	174 58.6	4055.6	7.1	183	65573.
24	1	1968	0.0	1520	-77 36.1	174 58.2	4057.3	0.6	327	65563.
24	1	1968	0.0	1614	-77 35.6	174 56.8	4057.9	0.4	351	65567.
24	1	1968	0.0	1830	-77 34.8	174 56.2	4058.7	0.4	360	65572.
24	1	1968	0.0	1920	-77 34.4	174 56.2	4059.1	4.5	120	65574.
24	1	1968	0.0	1925	-77 34.6	174 57.7	4059.5	3.1	118	65572.
24	1	1968	0.0	2010	-77 35.7	175 7.2	4061.8	0.4	0	65559.
24	1	1968	0.0	2035	-77 35.5	175 7.2	4062.0	4.3	120	65560.
24	1	1968	0.0	2115	-77 36.9	175 18.7	4064.8	4.2	120	65545.
24	1	1968	0.0	2130	-77 37.4	175 22.9	4065.9	12.0	98	65539.
24	1	1968	0.0	2135	-77 37.6	175 27.5	4066.9	10.6	165	65536.
24	1	1968	0.0	2141	-77 38.6	175 28.7	4067.9	10.2	98	65529.
24	1	1968	0.0	2223	-77 39.5	176 2.0	4075.1	10.1	105	65502.
24	1	1968	0.0	2243	-77 40.4	176 17.2	4078.5	11.0	110	65487.
24	1	1968	0.0	2311	-77 42.1	176 39.9	4083.6	9.9	123	65462.
24	1	1968	0.0	2318	-77 42.7	176 44.5	4084.8	10.5	122	65455.
25	1	1968	0.0	010	-77 47.6	177 20.6	4093.8	10.9	139	65403.
25	1	1968	0.0	015	-77 48.3	177 23.4	4094.7	12.1	142	65397.
25	1	1968	0.0	018	-77 48.8	177 25.1	4095.3	4.6	138	65393.
25	1	1968	0.0	030	-77 49.5	177 28.1	4096.3	0.5	67	65387.
25	1	1968	0.0	130	-77 49.2	177 30.4	4096.8	6.2	226	65387.
25	1	1968	0.0	139	-77 49.9	177 27.3	4097.7	10.1	139	65385.
25	1	1968	0.0	145	-77 50.6	177 30.4	4098.8	10.9	127	65379.
25	1	1968	0.0	158	-77 52.1	177 39.3	4101.1	11.3	148	65364.
25	1	1968	0.0	221	-77 55.8	177 50.2	4105.4	9.3	122	65336.
25	1	1968	0.0	233	-77 56.7	177 57.8	4107.3	0.5	67	65325.
25	1	1968	0.0	310	-77 56.6	177 59.3	4107.6	0.4	27	65325.
25	1	1968	0.0	446	-77 56.0	178 0.8	4108.3	0.2	222	65327.
25	1	1968	0.0	5 2	-77 56.0	178 0.6	4108.4	8.0	200	65327.
25	1	1968	0.0	512	-77 57.3	177 58.4	4109.7	0.2	221	65322.
25	1	1968	0.0	636	-77 57.5	177 57.5	4110.0	0.2	32	65321.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
25	1	1968	0.0	8 5	-77 57.2	177 58.5	4110.3	6.9	189	65322.
25	1	1968	0.0	816	-77 58.4	177 57.5	4111.6	11.8	145	65316.
25	1	1968	0.0	817	-77 58.6	177 58.0	4111.8	9.1	145	65315.
25	1	1968	0.0	845	-78 2.0	178 9.9	4116.1	9.5	154	65287.
25	1	1968	0.0	915	-78 6.3	178 20.1	4120.8	8.4	179	65256.
25	1	1968	0.0	922	-78 7.3	178 20.1	4121.8	10.3	85	65250.
25	1	1968	0.0	935	-78 7.1	178 31.0	4124.0	10.1	87	65243.
25	1	1968	0.0	1016	-78 6.7	179 4.4	4130.9	8.4	103	65221.
25	1	1968	0.0	1057	-78 8.0	179 31.6	4136.7	10.5	109	65193.
25	1	1968	0.0	1140	-78 10.4	-179 53.5	4144.2	10.2	45	65153.
25	1	1968	0.0	1152	-78 9.0	-179 46.5	4146.3	9.5	144	65155.
25	1	1968	0.0	1210	-78 11.3	-179 38.2	4149.1	8.7	142	65136.
25	1	1968	0.0	1212	-78 11.5	-179 37.4	4149.4	9.0	92	65134.
25	1	1968	0.0	1230	-78 11.6	-179 24.1	4152.1	10.5	97	65123.
25	1	1968	0.0	1241	-78 11.8	-179 14.8	4154.0	9.1	110	65115.
25	1	1968	0.0	1338	-78 14.8	-178 35.0	4162.7	9.5	115	65066.
25	1	1968	0.0	1350	-78 15.6	-178 26.5	4164.6	8.9	100	65055.
25	1	1968	0.0	1410	-78 16.1	-178 12.2	4167.5	3.5	99	65041.
25	1	1968	0.0	1415	-78 16.1	-178 10.8	4167.8	6.4	121	65039.
25	1	1968	0.0	1426	-78 16.7	-178 5.9	4169.0	0.1	291	65032.
25	1	1968	0.0	1528	-78 16.7	-178 6.6	4169.1	1.0	59	65033.
25	1	1968	0.0	18 0	-78 15.4	-177 55.7	4171.7	2.1	204	65031.
25	1	1968	0.0	1848	-78 16.9	-177 59.0	4173.4	3.6	110	65025.
25	1	1968	0.0	1858	-78 17.1	-177 56.3	4174.0	2.3	114	65022.
25	1	1968	0.0	19 0	-78 17.2	-177 55.9	4174.1	1.4	108	65021.
25	1	1968	0.0	1920	-78 17.3	-177 53.8	4174.5	2.1	113	65019.
25	1	1968	0.0	1930	-78 17.4	-177 52.3	4174.9	0.4	37	65017.
25	1	1968	0.0	2018	-78 17.2	-177 51.2	4175.2	5.3	133	65017.
25	1	1968	0.0	2028	-78 17.8	-177 48.0	4176.1	7.2	102	65011.
25	1	1968	0.0	2034	-78 17.9	-177 44.6	4176.8	10.7	103	65008.
25	1	1968	0.0	2046	-78 18.4	-177 34.3	4178.9	8.7	78	64996.
25	1	1968	0.0	2051	-78 18.2	-177 30.8	4179.7	6.3	77	64994.
25	1	1968	0.0	21 0	-78 18.0	-177 26.2	4180.6	12.0	59	64992.
25	1	1968	0.0	2113	-78 16.7	-177 15.3	4183.2	9.2	102	64989.
25	1	1968	0.0	2115	-78 16.8	-177 13.8	4183.5	9.1	102	64988.
25	1	1968	0.0	2138	-78 17.5	-176 57.1	4187.0	9.9	83	64970.
25	1	1968	0.0	22 0	-78 17.1	-176 39.4	4190.6	4.5	161	64957.
25	1	1968	0.0	2210	-78 17.8	-176 38.2	4191.4	7.8	162	64952.
25	1	1968	0.0	2213	-78 18.2	-176 37.6	4191.7	9.6	88	64949.
25	1	1968	0.0	2232	-78 18.0	-176 22.7	4194.8	8.8	88	64937.
25	1	1968	0.0	2246	-78 18.0	-176 12.6	4196.8	10.2	78	64928.
25	1	1968	0.0	23 4	-78 17.3	-175 57.8	4199.9	9.5	88	64919.
25	1	1968	0.0	2336	-78 17.2	-175 32.9	4204.9	7.7	109	64897.
25	1	1968	0.0	2355	-78 18.0	-175 21.7	4207.4	0.6	302	64883.
26	1	1968	0.0	1 5	-78 17.6	-175 24.4	4208.0	6.0	107	64887.
26	1	1968	0.0	115	-78 17.9	-175 19.7	4209.0	10.0	107	64881.
26	1	1968	0.0	155	-78 19.9	-174 48.4	4215.7	9.3	88	64842.
26	1	1968	0.0	224	-78 19.7	-174 26.3	4220.1	9.7	99	64822.
26	1	1968	0.0	241	-78 20.2	-174 12.8	4222.9	9.6	104	64808.
26	1	1968	0.0	335	-78 22.2	-173 31.4	4231.5	9.9	88	64757.
26	1	1968	0.0	350	-78 22.2	-173 19.1	4234.0	9.6	104	64746.
26	1	1968	0.0	356	-78 22.4	-173 14.4	4235.0	9.9	105	64740.
26	1	1968	0.0	4 0	-78 22.6	-173 11.3	4235.6	4.2	105	64736.
26	1	1968	0.0	420	-78 22.9	-173 4.6	4237.0	0.3	279	64728.
26	1	1968	0.0	544	-78 22.9	-173 6.8	4237.5	0.7	298	64730.
26	1	1968	0.0	855	-78 21.9	-173 16.0	4239.6	2.3	89	64744.
26	1	1968	0.0	940	-78 21.8	-173 7.2	4241.3	3.4	9	64736.
26	1	1968	0.0	955	-78 21.0	-173 6.6	4242.2	3.9	80	64740.
26	1	1968	0.0	1010	-78 20.8	-173 1.8	4243.1	3.7	91	64736.
26	1	1968	0.0	1045	-78 20.9	-172 51.2	4245.3	8.7	163	64725.
26	1	1968	0.0	11 6	-78 23.8	-172 46.8	4248.3	8.1	88	64706.
26	1	1968	0.0	11 8	-78 23.7	-172 45.4	4248.6	8.8	86	64705.
26	1	1968	0.0	1137	-78 23.5	-172 24.4	4252.8	10.2	77	64686.
26	1	1968	0.0	1149	-78 23.0	-172 14.6	4254.8	10.2	87	64678.
26	1	1968	0.0	1215	-78 22.7	-171 52.7	4259.3	7.1	95	64658.
26	1	1968	0.0	1237	-78 23.0	-171 39.9	4261.9	12.4	91	64644.
26	1	1968	0.0	1250	-78 23.0	-171 26.6	4264.5	11.6	93	64630.
26	1	1968	0.0	1255	-78 23.1	-171 21.8	4265.5	8.9	89	64625.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
26	1	1968	0.0	13 0	-78 23.1	-171 18.1	4266.2	8.8	89	64621.
26	1	1968	0.0	1324	-78 23.0	-171 0.6	4269.8	10.0	82	64603.
26	1	1968	0.0	1333	-78 22.8	-170 53.2	4271.3	8.5	88	64597.
26	1	1968	0.0	14 5	-78 22.7	-170 30.7	4275.8	9.1	93	64574.
26	1	1968	0.0	1444	-78 22.9	-170 1.2	4281.8	9.2	89	64541.
26	1	1968	0.0	1452	-78 22.9	-169 55.1	4283.0	9.4	90	64535.
26	1	1968	0.0	1530	-78 22.9	-169 25.5	4288.9	6.2	105	64503.
26	1	1968	0.0	16 6	-78 23.8	-169 7.6	4292.7	6.2	105	64480.
26	1	1968	0.0	1615	-78 24.1	-169 3.2	4293.6	0.5	275	64474.
26	1	1968	0.0	1810	-78 24.0	-169 7.9	4294.5	0.2	158	64479.
26	1	1968	0.0	1950	-78 24.3	-169 7.2	4294.9	2.9	54	64477.
26	1	1968	0.0	2025	-78 23.3	-169 0.5	4296.5	0.2	158	64474.
26	1	1968	0.0	2120	-78 23.5	-169 0.2	4296.7	5.5	92	64473.
26	1	1968	0.0	2130	-78 23.5	-168 55.7	4297.6	9.4	86	64468.
26	1	1968	0.0	2140	-78 23.4	-168 47.9	4299.2	8.6	83	64460.
26	1	1968	0.0	2225	-78 22.6	-168 16.1	4305.6	9.7	132	64429.
26	1	1968	0.0	2233	-78 23.5	-168 11.3	4306.9	8.1	105	64419.
26	1	1968	0.0	2245	-78 23.9	-168 3.5	4308.6	8.3	94	64408.
26	1	1968	0.0	23 4	-78 24.1	-167 50.4	4311.2	3.9	93	64393.
26	1	1968	0.0	2318	-78 24.2	-167 46.0	4312.1	0.9	285	64388.
26	1	1968	0.0	2356	-78 24.0	-167 48.6	4312.6	1.0	286	64391.
27	1	1968	0.0	0 6	-78 24.0	-167 49.4	4312.8	7.0	99	64392.
27	1	1968	0.0	018	-78 24.2	-167 42.5	4314.2	8.5	93	64384.
27	1	1968	0.0	131	-78 24.7	-166 50.8	4324.6	8.2	88	64322.
27	1	1968	0.0	148	-78 24.6	-166 39.2	4326.9	9.5	56	64310.
27	1	1968	0.0	158	-78 23.7	-166 32.7	4328.5	9.2	71	64306.
27	1	1968	0.0	2 7	-78 23.2	-166 26.2	4329.9	2.2	60	64301.
27	1	1968	0.0	211	-78 23.2	-166 25.6	4330.1	4.2	99	64300.
27	1	1968	0.0	316	-78 23.8	-166 3.3	4334.6	4.8	96	64271.
27	1	1968	0.0	4 1	-78 24.2	-165 45.6	4338.2	5.5	107	64249.
27	1	1968	0.0	413	-78 24.5	-165 40.4	4339.3	4.8	112	64241.
27	1	1968	0.0	438	-78 25.3	-165 31.2	4341.2	5.1	112	64227.
27	1	1968	0.0	456	-78 25.8	-165 24.1	4342.8	5.4	117	64216.
27	1	1968	0.0	510	-78 26.4	-165 18.5	4344.0	5.1	125	64206.
27	1	1968	0.0	541	-78 27.9	-165 7.8	4346.7	8.8	124	64187.
27	1	1968	0.0	555	-78 29.1	-164 59.2	4348.7	10.6	117	64172.
27	1	1968	0.0	615	-78 30.7	-164 43.5	4352.2	8.5	118	64146.
27	1	1968	0.0	624	-78 31.3	-164 37.8	4353.5	6.2	91	64136.
27	1	1968	0.0	650	-78 31.3	-164 24.4	4356.2	0.3	247	64120.
27	1	1968	0.0	654	-78 31.3	-164 24.5	4356.2	0.0	207	64120.
27	1	1968	0.0	1016	-78 31.4	-164 24.8	4356.3	1.0	289	64120.
27	1	1968	0.0	11 0	-78 31.2	-164 28.4	4357.1	5.9	288	64125.
27	1	1968	0.0	12 0	-78 29.3	-164 56.7	4363.0	11.8	299	64167.
27	1	1968	0.0	12 5	-78 28.8	-165 1.0	4364.0	8.6	344	64175.
27	1	1968	0.0	1211	-78 28.0	-165 2.2	4364.9	4.5	287	64180.
27	1	1968	0.0	1237	-78 27.5	-165 11.5	4366.8	2.9	296	64193.
27	1	1968	0.0	1256	-78 27.1	-165 15.7	4367.7	1.0	289	64200.
27	1	1968	0.0	1310	-78 27.0	-165 16.8	4368.0	3.3	117	64202.
27	1	1968	0.0	1352	-78 28.0	-165 6.6	4370.3	3.5	117	64185.
27	1	1968	0.0	1356	-78 28.1	-165 5.6	4370.5	11.1	303	64184.
27	1	1968	0.0	14 6	-78 27.1	-165 13.4	4372.3	10.9	304	64197.
27	1	1968	0.0	1412	-78 26.5	-165 17.9	4373.4	10.2	299	64205.
27	1	1968	0.0	1435	-78 24.6	-165 35.0	4377.3	9.5	50	64234.
27	1	1968	0.0	1520	-78 20.1	-165 7.6	4384.5	9.2	66	64222.
27	1	1968	0.0	1532	-78 19.3	-164 59.3	4386.3	9.1	67	64215.
27	1	1968	0.0	1638	-78 15.3	-164 13.8	4396.4	9.8	36	64176.
27	1	1968	0.0	1655	-78 13.1	-164 5.8	4399.2	8.8	50	64176.
27	1	1968	0.0	1715	-78 11.2	-163 54.8	4402.1	9.8	51	64170.
27	1	1968	0.0	1720	-78 10.7	-163 51.7	4402.9	9.8	52	64168.
27	1	1968	0.0	1745	-78 8.2	-163 36.1	4407.0	10.0	74	64159.
27	1	1968	0.0	1836	-78 5.8	-162 56.4	4415.5	5.3	104	64118.
27	1	1968	0.0	19 0	-78 6.4	-162 46.4	4417.6	8.1	63	64103.
27	1	1968	0.0	19 5	-78 6.0	-162 43.4	4418.3	2.3	58	64100.
27	1	1968	0.0	1912	-78 5.9	-162 42.3	4418.5	4.9	121	64099.
27	1	1968	0.0	1924	-78 6.4	-162 38.2	4419.5	4.7	110	64092.
27	1	1968	0.0	1930	-78 6.6	-162 36.1	4420.0	6.2	65	64088.
27	1	1968	0.0	20 0	-78 5.3	-162 22.5	4423.1	1.1	350	64076.
27	1	1968	0.0	2056	-78 4.3	-162 23.3	4424.1	0.2	22	64081.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
27	1	1968	0.0	2252	-78 4.0	-162 22.8	4424.4	0.4	260	64081.
28	1	1968	0.0	4 6	-78 4.4	-162 32.4	4426.4	3.8	57	64093.
28	1	1968	0.0	5 0	-78 2.5	-162 18.4	4429.9	8.5	59	64082.
28	1	1968	0.0	545	-77 59.2	-161 52.4	4436.2	9.9	60	64060.
28	1	1968	0.0	557	-77 58.2	-161 44.2	4438.2	9.4	65	64053.
28	1	1968	0.0	6 0	-77 58.0	-161 42.1	4438.6	11.4	65	64051.
28	1	1968	0.0	6 2	-77 57.8	-161 40.5	4439.0	11.5	61	64049.
28	1	1968	0.0	635	-77 54.7	-161 14.0	4445.3	11.8	45	64025.
28	1	1968	0.0	7 0	-77 51.3	-160 57.4	4450.2	12.3	66	64016.
28	1	1968	0.0	7 7	-77 50.7	-160 51.1	4451.7	12.2	83	64009.
28	1	1968	0.0	720	-77 50.4	-160 38.7	4454.3	6.8	53	63993.
28	1	1968	0.0	725	-77 50.1	-160 36.6	4454.9	7.1	86	63991.
28	1	1968	0.0	738	-77 50.0	-160 29.3	4456.4	12.1	287	63982.
28	1	1968	0.0	746	-77 49.5	-160 36.7	4458.0	11.5	287	63994.
28	1	1968	0.0	8 0	-77 48.7	-160 48.9	4460.7	12.1	63	64013.
28	1	1968	0.0	842	-77 44.8	-160 13.4	4469.2	8.0	248	63978.
28	1	1968	0.0	923	-77 46.9	-160 37.4	4474.6	0.5	323	64004.
28	1	1968	0.0	940	-77 46.7	-160 37.7	4474.8	0.6	34	64005.
28	1	1968	0.0	1112	-77 46.0	-160 35.4	4475.6	3.4	209	64004.
28	1	1968	0.0	1115	-77 46.2	-160 35.8	4475.8	11.2	287	64005.
28	1	1968	0.0	1125	-77 45.6	-160 44.3	4477.7	12.1	245	64018.
28	1	1968	0.0	1128	-77 45.9	-160 46.9	4478.3	13.2	246	64021.
28	1	1968	0.0	1135	-77 46.5	-160 53.5	4479.8	9.6	247	64028.
28	1	1968	0.0	1151	-77 47.5	-161 4.6	4482.4	12.7	280	64039.
28	1	1968	0.0	12 9	-77 46.8	-161 22.4	4486.2	12.7	266	64066.
28	1	1968	0.0	1213	-77 46.9	-161 26.4	4487.1	13.4	266	64071.
28	1	1968	0.0	1221	-77 47.0	-161 34.8	4488.9	9.6	280	64082.
28	1	1968	0.0	1242	-77 46.4	-161 50.5	4492.2	12.9	357	64106.
28	1	1968	0.0	1324	-77 37.4	-161 52.8	4501.2	11.2	46	64142.
28	1	1968	0.0	1355	-77 33.4	-161 33.4	4507.0	11.4	62	64130.
28	1	1968	0.0	1417	-77 31.4	-161 16.2	4511.2	11.9	58	64113.
28	1	1968	0.0	1433	-77 29.7	-161 3.9	4514.4	11.7	37	64102.
28	1	1968	0.0	1444	-77 28.0	-160 58.0	4516.5	11.9	38	64099.
28	1	1968	0.0	1450	-77 27.1	-160 54.6	4517.7	12.4	358	64098.
28	1	1968	0.0	1525	-77 19.8	-160 55.9	4524.9	11.5	43	64124.
28	1	1968	0.0	1544	-77 17.2	-160 44.6	4528.6	11.8	53	64117.
28	1	1968	0.0	16 8	-77 14.3	-160 27.6	4533.3	11.1	333	64102.
28	1	1968	0.0	1622	-77 12.0	-160 32.9	4535.9	12.3	324	64117.
28	1	1968	0.0	1632	-77 10.3	-160 38.3	4537.9	11.8	322	64130.
28	1	1968	0.0	1733	-77 0.9	-161 11.7	4550.0	11.9	332	64207.
28	1	1968	0.0	1750	-76 57.9	-161 18.7	4553.3	12.0	292	64226.
28	1	1968	0.0	1810	-76 56.4	-161 35.2	4557.3	11.7	287	64255.
28	1	1968	0.0	1826	-76 55.5	-161 48.4	4560.5	12.1	290	64277.
28	1	1968	0.0	1857	-76 53.3	-162 14.2	4566.7	12.1	17	64321.
28	1	1968	0.0	1926	-76 47.7	-162 6.9	4572.6	11.7	314	64328.
28	1	1968	0.0	1945	-76 45.1	-162 18.6	4576.3	12.2	300	64353.
28	1	1968	0.0	20 4	-76 43.2	-162 33.3	4580.2	11.9	298	64380.
28	1	1968	0.0	2034	-76 40.4	-162 56.1	4586.1	12.0	357	64421.
28	1	1968	0.0	2115	-76 32.2	-162 57.7	4594.3	11.8	347	64448.
28	1	1968	0.0	2145	-76 26.4	-163 3.3	4600.2	12.4	337	64474.
28	1	1968	0.0	2234	-76 17.1	-163 19.8	4610.4	12.9	197	64525.
28	1	1968	0.0	2255	-76 21.4	-163 25.5	4614.9	8.3	199	64520.
28	1	1968	0.0	2310	-76 23.3	-163 28.3	4617.0	0.6	256	64519.
28	1	1968	0.0	2340	-76 23.4	-163 29.5	4617.2	0.2	72	64520.
29	1	1968	0.0	025	-76 23.4	-163 29.0	4617.4	11.7	45	64520.
29	1	1968	0.0	040	-76 21.3	-163 20.1	4620.3	0.2	73	64513.
29	1	1968	0.0	3 7	-76 21.2	-163 18.6	4620.7	7.4	346	64511.
29	1	1968	0.0	320	-76 19.6	-163 20.2	4622.3	12.8	346	64518.
29	1	1968	0.0	328	-76 18.0	-163 22.0	4624.0	12.0	329	64525.
29	1	1968	0.0	336	-76 16.6	-163 25.5	4625.6	11.9	301	64534.
29	1	1968	0.0	353	-76 14.9	-163 37.7	4628.9	12.8	199	64557.
29	1	1968	0.0	412	-76 18.7	-163 43.4	4633.0	12.0	152	64554.
29	1	1968	0.0	418	-76 19.8	-163 41.0	4634.2	12.6	179	64547.
29	1	1968	0.0	447	-76 25.9	-163 40.7	4640.3	12.7	285	64529.
29	1	1968	0.0	5 2	-76 25.0	-163 53.7	4643.5	12.8	295	64550.
29	1	1968	0.0	540	-76 21.5	-164 24.9	4651.6	14.1	321	64605.
29	1	1968	0.0	551	-76 19.5	-164 31.9	4654.2	12.1	1	64621.
29	1	1968	0.0	6 8	-76 16.1	-164 31.7	4657.6	12.8	264	64631.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
29	1	1968	0.0	620	-76 16.4	-164 42.5	4660.2	12.4	295	64645.
29	1	1968	0.0	643	-76 14.3	-165 0.6	4664.9	13.1	270	64677.
29	1	1968	0.0	7 2	-76 14.3	-165 18.0	4669.1	12.8	266	64701.
29	1	1968	0.0	726	-76 14.7	-165 39.5	4674.2	13.3	298	64730.
29	1	1968	0.0	812	-76 9.9	-166 17.3	4684.4	11.2	281	64797.
29	1	1968	0.0	838	-76 9.0	-166 37.2	4689.2	12.2	280	64827.
29	1	1968	0.0	9 0	-76 8.2	-166 55.6	4693.7	8.3	278	64854.
29	1	1968	0.0	925	-76 7.7	-167 9.9	4697.2	7.4	312	64875.
29	1	1968	0.0	940	-76 6.5	-167 15.6	4699.0	8.5	223	64887.
29	1	1968	0.0	944	-76 6.9	-167 17.2	4699.6	8.2	223	64888.
29	1	1968	0.0	954	-76 7.9	-167 21.2	4701.0	9.1	293	64890.
29	1	1968	0.0	10 0	-76 7.5	-167 24.6	4701.9	12.1	295	64896.
29	1	1968	0.0	1015	-76 6.2	-167 36.0	4704.9	13.0	229	64915.
29	1	1968	0.0	1030	-76 8.4	-167 46.2	4708.1	10.2	210	64922.
29	1	1968	0.0	1045	-76 10.6	-167 51.6	4710.7	8.2	177	64922.
29	1	1968	0.0	1058	-76 12.4	-167 51.2	4712.5	5.6	179	64916.
29	1	1968	0.0	11 3	-76 12.8	-167 51.2	4712.9	5.8	199	64914.
29	1	1968	0.0	1123	-76 14.7	-167 53.8	4714.9	11.0	198	64912.
29	1	1968	0.0	1132	-76 16.2	-167 55.9	4716.5	12.6	238	64909.
29	1	1968	0.0	1153	-76 18.6	-168 11.7	4721.0	11.6	251	64922.
29	1	1968	0.0	12 8	-76 19.5	-168 23.3	4723.9	12.1	233	64934.
29	1	1968	0.0	1222	-76 21.2	-168 32.9	4726.7	11.5	235	64941.
29	1	1968	0.0	1229	-76 22.0	-168 37.5	4728.0	11.9	220	64944.
29	1	1968	0.0	1311	-76 28.4	-169 0.3	4736.4	11.9	239	64951.
29	1	1968	0.0	1337	-76 31.0	-169 19.3	4741.5	12.2	279	64965.
29	1	1968	0.0	1354	-76 30.5	-169 33.9	4744.9	12.8	280	64985.
29	1	1968	0.0	1423	-76 29.4	-169 60.0	4751.1	11.8	308	65022.
29	1	1968	0.0	1450	-76 26.1	-170 17.8	4756.4	0.8	281	65055.
29	1	1968	0.0	1554	-76 26.0	-170 21.3	4757.3	1.0	240	65060.
29	1	1968	0.0	1740	-76 26.9	-170 27.8	4759.0	2.7	274	65065.
29	1	1968	0.0	1840	-76 26.7	-170 39.5	4761.8	1.0	240	65080.
29	1	1968	0.0	19 0	-76 26.8	-170 40.7	4762.1	6.7	307	65081.
29	1	1968	0.0	1915	-76 25.8	-170 46.4	4763.8	12.3	311	65091.
29	1	1968	0.0	1928	-76 24.1	-170 55.0	4766.4	12.1	309	65108.
29	1	1968	0.0	1936	-76 23.1	-171 0.3	4768.0	9.5	355	65118.
29	1	1968	0.0	20 7	-76 18.2	-171 2.3	4772.9	12.4	295	65138.
29	1	1968	0.0	2011	-76 17.8	-171 5.4	4773.8	6.5	290	65143.
29	1	1968	0.0	2056	-76 16.2	-171 24.7	4778.6	5.3	350	65172.
29	1	1968	0.0	2114	-76 14.6	-171 25.8	4780.2	5.9	335	65179.
29	1	1968	0.0	2130	-76 13.2	-171 28.6	4781.8	7.3	321	65188.
29	1	1968	0.0	2150	-76 11.3	-171 35.1	4784.2	5.7	298	65202.
29	1	1968	0.0	2210	-76 10.4	-171 42.1	4786.1	6.2	341	65214.
29	1	1968	0.0	2225	-76 9.0	-171 44.2	4787.7	5.1	322	65222.
29	1	1968	0.0	2242	-76 7.8	-171 47.9	4789.1	5.7	340	65230.
29	1	1968	0.0	2254	-76 6.8	-171 49.5	4790.2	5.1	341	65236.
29	1	1968	0.0	23 3	-76 6.0	-171 50.5	4791.0	2.4	296	65239.
30	1	1968	0.0	015	-76 4.8	-172 1.5	4793.9	5.3	295	65257.
30	1	1968	0.0	028	-76 4.3	-172 5.8	4795.1	8.5	290	65264.
30	1	1968	0.0	044	-76 3.5	-172 14.7	4797.3	7.4	310	65277.
30	1	1968	0.0	056	-76 2.6	-172 19.4	4798.8	4.9	335	65286.
30	1	1968	0.0	1 3	-76 2.0	-172 20.4	4799.4	6.1	337	65289.
30	1	1968	0.0	1 8	-76 1.6	-172 21.2	4799.9	8.5	339	65292.
30	1	1968	0.0	113	-76 0.9	-172 22.3	4800.6	11.2	14	65295.
30	1	1968	0.0	232	-75 46.7	-172 7.7	4815.3	11.7	12	65326.
30	1	1968	0.0	239	-75 45.3	-172 6.6	4816.7	12.4	330	65329.
30	1	1968	0.0	313	-75 39.2	-172 20.8	4823.7	12.8	325	65367.
30	1	1968	0.0	345	-75 33.6	-172 36.5	4830.5	13.2	310	65404.
30	1	1968	0.0	412	-75 29.8	-172 54.6	4836.5	12.8	311	65439.
30	1	1968	0.0	424	-75 28.1	-173 2.4	4839.0	12.8	149	65453.
30	1	1968	0.0	558	-75 45.3	-172 20.2	4859.1	12.3	145	65346.
30	1	1968	0.0	639	-75 52.2	-172 0.8	4867.5	11.4	100	65299.
30	1	1968	0.0	652	-75 52.6	-171 50.8	4870.0	12.9	105	65286.
30	1	1968	0.0	658	-75 52.9	-171 45.7	4871.3	12.2	143	65278.
30	1	1968	0.0	720	-75 56.5	-171 34.7	4875.7	6.3	100	65253.
30	1	1968	0.0	733	-75 56.7	-171 29.2	4877.1	10.9	241	65245.
30	1	1968	0.0	738	-75 57.2	-171 32.4	4878.0	8.1	270	65248.
30	1	1968	0.0	746	-75 57.2	-171 36.9	4879.1	8.1	272	65253.
30	1	1968	0.0	753	-75 57.2	-171 40.7	4880.0	8.3	359	65258.

ELTANIN CRUISE 32

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
30	1	1968	0.0	8 2	-75 55.9	-171 40.8	4881.3	12.3	360	65262.
30	1	1968	0.0	8 5	-75 55.3	-171 40.8	4881.9	13.2	311	65265.
30	1	1968	0.0	840	-75 50.3	-172 4.9	4889.6	13.4	325	65311.
30	1	1968	0.0	9 2	-75 46.2	-172 16.2	4894.5	11.5	301	65338.
30	1	1968	0.0	911	-75 45.3	-172 22.2	4896.3	13.2	320	65348.
30	1	1968	0.0	936	-75 41.1	-172 36.4	4901.8	13.4	330	65380.
30	1	1968	0.0	1013	-75 33.9	-172 52.9	4910.0	5.8	331	65423.
30	1	1968	0.0	1027	-75 32.7	-172 55.6	4911.4	5.7	28	65430.
30	1	1968	0.0	1040	-75 31.6	-172 53.3	4912.6	0.3	344	65431.
30	1	1968	0.0	1114	-75 31.5	-172 53.4	4912.8	0.4	358	65432.
30	1	1968	0.0	1448	-75 30.1	-172 53.7	4914.1	0.4	312	65436.
30	1	1968	0.0	16 4	-75 29.8	-172 55.1	4914.6	6.0	282	65439.
30	1	1968	0.0	17 0	-75 28.6	-173 17.1	4920.2	3.3	284	65470.
30	1	1968	0.0	1740	-75 28.1	-173 25.7	4922.5	0.4	312	65482.
30	1	1968	0.0	1750	-75 28.1	-173 25.9	4922.5	3.5	130	65482.
30	1	1968	0.0	1824	-75 29.3	-173 19.8	4924.5	4.7	126	65471.
30	1	1968	0.0	1830	-75 29.6	-173 18.3	4925.0	0.9	111	65468.
30	1	1968	0.0	1840	-75 29.7	-173 17.7	4925.1	3.8	126	65467.
30	1	1968	0.0	1850	-75 30.0	-173 15.6	4925.8	3.8	126	65463.
30	1	1968	0.0	1910	-75 30.8	-173 11.5	4927.1	2.7	124	65456.
30	1	1968	0.0	2014	-75 32.4	-173 2.0	4929.9	2.1	159	65439.
30	1	1968	0.0	2015	-75 32.4	-173 2.0	4930.0	1.1	221	65439.
30	1	1968	0.0	2030	-75 32.6	-173 2.7	4930.2	12.9	192	65439.
30	1	1968	0.0	2155	-75 50.5	-173 18.7	4948.6	1.9	116	65399.
30	1	1968	0.0	22 0	-75 50.6	-173 18.1	4948.7	2.0	114	65398.
30	1	1968	0.0	2330	-75 51.8	-173 7.0	4951.7	1.1	220	65380.
30	1	1968	0.0	2354	-75 52.2	-173 8.1	4952.1	1.0	213	65380.
31	1	1968	0.0	3 0	-75 54.8	-173 15.2	4955.3	8.7	196	65380.
31	1	1968	0.0	318	-75 57.3	-173 18.2	4957.9	9.0	198	65374.
31	1	1968	0.0	328	-75 58.7	-173 20.1	4959.4	10.7	198	65372.
31	1	1968	0.0	5 0	-76 14.4	-173 40.9	4975.9	10.9	197	65338.
31	1	1968	0.0	5 6	-76 15.4	-173 42.2	4976.9	10.5	195	65336.
31	1	1968	0.0	615	-76 27.1	-173 55.6	4989.0	7.5	196	65306.
31	1	1968	0.0	625	-76 28.3	-173 57.0	4990.2	0.9	207	65303.
31	1	1968	0.0	650	-76 28.6	-173 57.7	4990.6	0.2	26	65302.
31	1	1968	0.0	1020	-76 27.9	-173 56.3	4991.4	1.6	199	65303.
31	1	1968	0.0	1110	-76 29.2	-173 58.2	4992.7	0.2	26	65301.
31	1	1968	0.0	1118	-76 29.2	-173 58.1	4992.7	5.2	319	65301.
31	1	1968	0.0	1125	-76 28.7	-173 59.8	4993.3	10.7	318	65304.
31	1	1968	0.0	1142	-76 26.5	-174 8.5	4996.4	10.3	205	65323.
31	1	1968	0.0	1330	-76 43.2	-174 42.2	5014.9	10.7	205	65291.
31	1	1968	0.0	1352	-76 46.8	-174 49.4	5018.8	11.4	208	65284.
31	1	1968	0.0	1530	-77 3.3	-175 27.9	5037.4	11.6	208	65252.
31	1	1968	0.0	1554	-77 7.4	-175 37.6	5042.1	12.1	205	65243.
31	1	1968	0.0	17 0	-77 19.4	-176 2.8	5055.3	11.8	205	65213.
31	1	1968	0.0	1750	-77 28.3	-176 21.7	5065.2	11.4	205	65188.
31	1	1968	0.0	1831	-77 35.4	-176 36.8	5072.9	13.0	219	65168.
31	1	1968	0.0	1851	-77 38.7	-176 49.6	5077.3	9.7	219	65164.
31	1	1968	0.0	19 0	-77 39.9	-176 53.9	5078.7	0.4	199	65162.
31	1	1968	0.0	1934	-77 40.1	-176 54.3	5079.0	0.7	35	65161.
31	1	1968	0.0	2140	-77 38.9	-176 50.2	5080.5	3.0	79	65163.
31	1	1968	0.0	2240	-77 38.3	-176 36.6	5083.5	0.7	35	65154.
31	1	1968	0.0	2245	-77 38.2	-176 36.4	5083.5	4.6	277	65154.
31	1	1968	0.0	2320	-77 37.9	-176 48.8	5086.2	0.7	35	65167.
1	2	1968	0.0	0 3	-77 37.5	-176 47.5	5086.7	6.5	85	65168.
1	2	1968	0.0	030	-77 37.2	-176 33.9	5089.6	9.0	86	65157.
1	2	1968	0.0	059	-77 36.9	-176 13.8	5093.9	9.6	92	65139.
1	2	1968	0.0	114	-77 37.0	-176 2.6	5096.3	9.2	86	65128.
1	2	1968	0.0	315	-77 35.8	-174 36.3	5114.9	8.9	86	65050.
1	2	1968	0.0	5 0	-77 34.8	-173 23.6	5130.6	9.6	87	64982.
1	2	1968	0.0	523	-77 34.6	-173 6.5	5134.3	8.7	86	64965.
1	2	1968	0.0	550	-77 34.3	-172 48.3	5138.2	6.5	85	64947.
1	2	1968	0.0	6 0	-77 34.2	-172 43.2	5139.3	0.7	36	64942.
1	2	1968	0.0	8 6	-77 33.0	-172 39.1	5140.8	0.4	288	64944.
1	2	1968	0.0	945	-77 32.8	-172 41.7	5141.4	2.1	97	64947.
1	2	1968	0.0	1050	-77 33.1	-172 31.0	5143.7	0.4	288	64935.
1	2	1968	0.0	11 0	-77 33.1	-172 31.3	5143.8	4.1	98	64935.
1	2	1968	0.0	1155	-77 33.6	-172 13.9	5147.5	0.4	288	64914.

ELTANIN CRUISE 32

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
1	2	1968	0.0	12 0	-77 33.6	-172 14.0	5147.6	2.8	54	64914.
1	2	1968	0.0	12 4	-77 33.5	-172 13.3	5147.7	5.1	26	64914.
1	2	1968	0.0	1234	-77 31.2	-172 8.1	5150.3	11.8	28	64919.
1	2	1968	0.0	1258	-77 27.0	-171 57.7	5155.0	12.5	29	64926.
1	2	1968	0.0	1316	-77 23.8	-171 49.4	5158.8	12.3	19	64932.
1	2	1968	0.0	1444	-77 6.7	-171 22.2	5176.9	11.4	19	64974.
1	2	1968	0.0	15 0	-77 3.8	-171 17.7	5179.9	12.1	19	64981.
1	2	1968	0.0	1519	-77 0.2	-171 12.1	5183.7	8.3	29	64989.
1	2	1968	0.0	1531	-76 58.8	-171 8.5	5185.4	4.9	29	64991.
1	2	1968	0.0	1545	-76 57.8	-171 6.1	5186.5	0.3	235	64992.
1	2	1968	0.0	1656	-76 58.0	-171 7.2	5186.9	0.2	156	64993.
1	2	1968	0.0	1820	-76 58.2	-171 6.7	5187.2	2.6	178	64991.
1	2	1968	0.0	1850	-76 59.6	-171 6.5	5188.5	3.2	178	64985.
1	2	1968	0.0	1950	-77 2.8	-171 6.1	5191.7	0.2	156	64972.
1	2	1968	0.0	2035	-77 2.9	-171 5.8	5191.9	2.8	39	64971.
1	2	1968	0.0	2110	-77 1.6	-171 1.2	5193.5	4.9	37	64971.
1	2	1968	0.0	2134	-77 0.1	-170 55.9	5195.4	4.8	35	64971.
1	2	1968	0.0	2151	-76 59.0	-170 52.4	5196.8	4.4	35	64971.
1	2	1968	0.0	22 4	-76 58.2	-170 50.0	5197.7	4.8	28	64972.
1	2	1968	0.0	2211	-76 57.7	-170 48.9	5198.3	12.8	31	64972.
1	2	1968	0.0	23 6	-76 47.7	-170 22.3	5210.0	2.5	43	64980.
1	2	1968	0.0	2311	-76 47.5	-170 21.7	5210.2	12.5	18	64980.
1	2	1968	0.0	2342	-76 41.4	-170 12.8	5216.7	7.0	17	64993.
2	2	1968	0.0	0 0	-76 39.4	-170 10.2	5218.8	0.5	329	64997.
2	2	1968	0.0	052	-76 39.0	-170 11.1	5219.2	5.3	16	65000.
2	2	1968	0.0	1 4	-76 38.0	-170 9.9	5220.3	11.8	18	65002.
2	2	1968	0.0	2 3	-76 26.9	-169 54.3	5231.9	11.5	18	65024.
2	2	1968	0.0	330	-76 11.1	-169 32.3	5248.6	12.2	18	65051.
2	2	1968	0.0	342	-76 8.7	-169 29.1	5251.0	11.6	22	65055.
2	2	1968	0.0	4 6	-76 4.5	-169 21.9	5255.7	11.2	17	65060.
2	2	1968	0.0	521	-75 51.0	-169 5.2	5269.7	11.7	11	65081.
2	2	1968	0.0	526	-75 50.1	-169 4.5	5270.7	8.4	17	65083.
2	2	1968	0.0	537	-75 48.6	-169 2.6	5272.2	9.2	78	65085.
2	2	1968	0.0	539	-75 48.5	-169 1.4	5272.5	7.5	23	65083.
2	2	1968	0.0	553	-75 46.9	-168 58.6	5274.3	3.3	27	65085.
2	2	1968	0.0	6 5	-75 46.3	-168 57.4	5274.9	10.0	80	65085.
2	2	1968	0.0	630	-75 45.6	-168 40.7	5279.1	10.4	70	65065.
2	2	1968	0.0	648	-75 44.6	-168 28.7	5282.2	7.5	71	65052.
2	2	1968	0.0	7 5	-75 43.9	-168 20.5	5284.4	0.5	145	65043.
2	2	1968	0.0	1510	-75 47.0	-168 11.8	5288.1	2.4	161	65022.
2	2	1968	0.0	1727	-75 52.2	-168 4.5	5293.6	0.5	145	64996.
2	2	1968	0.0	1738	-75 52.2	-168 4.3	5293.7	10.9	198	64996.
2	2	1968	0.0	1823	-76 0.0	-168 14.6	5301.9	0.5	145	64986.
2	2	1968	0.0	1948	-76 0.6	-168 13.0	5302.5	9.1	197	64982.
2	2	1968	0.0	20 5	-76 3.0	-168 16.2	5305.1	6.3	196	64978.
2	2	1968	0.0	2014	-76 3.9	-168 17.3	5306.0	4.3	30	64977.
2	2	1968	0.0	2016	-76 3.7	-168 16.7	5306.3	10.9	27	64977.
2	2	1968	0.0	2025	-76 2.5	-168 14.3	5307.6	10.6	112	64977.
2	2	1968	0.0	2032	-76 3.0	-168 9.5	5308.8	9.5	150	64970.
2	2	1968	0.0	2042	-76 4.4	-168 6.2	5310.4	4.4	309	64961.
2	2	1968	0.0	2052	-76 3.9	-168 8.6	5311.1	8.9	197	64966.
2	2	1968	0.0	21 1	-76 5.2	-168 10.2	5312.5	5.2	182	64964.
2	2	1968	0.0	2122	-76 7.0	-168 10.5	5314.3	2.4	178	64958.
2	2	1968	0.0	2149	-76 8.1	-168 10.4	5315.3	0.5	145	64955.
2	2	1968	0.0	2234	-76 8.4	-168 9.6	5315.7	3.0	175	64953.
2	2	1968	0.0	2330	-76 11.1	-168 8.5	5318.4	0.5	147	64942.
3	2	1968	0.0	056	-76 11.6	-168 7.0	5319.1	0.2	36	64939.
3	2	1968	0.0	139	-76 11.5	-168 6.6	5319.2	5.8	76	64939.
3	2	1968	0.0	156	-76 11.1	-167 59.9	5320.9	11.8	76	64931.
3	2	1968	0.0	348	-76 5.9	-166 30.2	5343.0	11.8	69	64827.
3	2	1968	0.0	5 4	-76 0.6	-165 32.2	5357.9	13.1	95	64762.
3	2	1968	0.0	510	-76 0.8	-165 26.8	5359.2	8.5	95	64754.
3	2	1968	0.0	515	-76 0.8	-165 23.9	5360.0	10.6	69	64749.
3	2	1968	0.0	530	-75 59.9	-165 13.7	5362.6	5.0	82	64737.
3	2	1968	0.0	546	-75 59.7	-165 8.2	5363.9	7.0	177	64730.
3	2	1968	0.0	552	-76 0.4	-165 8.0	5364.6	7.0	178	64728.
3	2	1968	0.0	6 1	-76 1.5	-165 7.9	5365.7	5.0	162	64725.
3	2	1968	0.0	6 9	-76 2.1	-165 7.0	5366.4	9.4	123	64722.

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
3	2	1968	0.0	629	-76 3.8	-164 56.1	5369.5	9.0	73	64701.
3	2	1968	0.0	649	-76 2.9	-164 44.3	5372.5	0.2	341	64687.
3	2	1968	0.0	917	-76 2.4	-164 45.0	5373.0	6.6	216	64689.
3	2	1968	0.0	933	-76 3.8	-164 49.3	5374.8	0.2	341	64692.
3	2	1968	0.0	1140	-76 3.4	-164 49.9	5375.3	4.9	191	64694.
3	2	1968	0.0	1147	-76 3.9	-164 50.4	5375.9	4.4	223	64693.
3	2	1968	0.0	1155	-76 4.4	-164 52.0	5376.4	2.2	225	64694.
3	2	1968	0.0	1254	-76 5.9	-164 58.5	5378.6	0.2	341	64699.
3	2	1968	0.0	1315	-76 5.9	-164 58.6	5378.7	4.4	202	64699.
3	2	1968	0.0	14 0	-76 8.9	-165 3.7	5382.0	0.2	341	64697.
3	2	1968	0.0	1525	-76 8.6	-165 4.1	5382.3	2.4	235	64699.
3	2	1968	0.0	1625	-76 10.0	-165 12.4	5384.7	0.2	338	64706.
3	2	1968	0.0	1632	-76 10.0	-165 12.5	5384.8	0.8	345	64706.
3	2	1968	0.0	1644	-76 9.8	-165 12.6	5384.9	11.3	205	64707.
3	2	1968	0.0	1710	-76 14.3	-165 21.2	5389.8	0.8	345	64706.
3	2	1968	0.0	1820	-76 13.3	-165 22.3	5390.8	7.5	206	64710.
3	2	1968	0.0	1822	-76 13.6	-165 22.7	5391.1	8.4	199	64710.
3	2	1968	0.0	1834	-76 15.1	-165 25.0	5392.7	11.4	200	64708.
3	2	1968	0.0	1945	-76 27.8	-165 44.3	5406.2	12.1	200	64695.
3	2	1968	0.0	2032	-76 36.7	-165 58.1	5415.7	12.9	198	64685.
3	2	1968	0.0	2156	-76 53.9	-166 23.0	5433.8	12.5	200	64658.
3	2	1968	0.0	22 0	-76 54.7	-166 24.3	5434.6	12.9	200	64657.
3	2	1968	0.0	2228	-77 0.3	-166 33.5	5440.6	12.0	203	64649.
3	2	1968	0.0	2242	-77 2.9	-166 38.4	5443.4	6.2	204	64646.
3	2	1968	0.0	2255	-77 4.1	-166 40.8	5444.8	0.3	352	64644.
4	2	1968	0.0	2 6	-77 3.1	-166 41.4	5445.8	0.2	109	64649.
4	2	1968	0.0	245	-77 3.1	-166 40.8	5446.0	1.7	193	64648.
4	2	1968	0.0	348	-77 4.9	-166 42.6	5447.8	0.2	109	64644.
4	2	1968	0.0	4 0	-77 4.9	-166 42.4	5447.8	4.8	202	64643.
4	2	1968	0.0	4 5	-77 5.3	-166 43.1	5448.2	12.0	204	64643.
4	2	1968	0.0	430	-77 9.8	-166 52.1	5453.2	10.9	204	64637.
4	2	1968	0.0	530	-77 19.8	-167 12.0	5464.1	11.6	204	64624.
4	2	1968	0.0	646	-77 33.2	-167 39.4	5478.8	12.7	202	64603.
4	2	1968	0.0	652	-77 34.4	-167 41.6	5480.1	9.6	201	64601.
4	2	1968	0.0	659	-77 35.5	-167 43.5	5481.2	8.5	205	64599.
4	2	1968	0.0	740	-77 40.7	-167 55.0	5487.0	6.7	260	64591.
4	2	1968	0.0	826	-77 41.6	-168 18.6	5492.1	7.8	261	64615.
4	2	1968	0.0	847	-77 42.0	-168 31.2	5494.8	7.5	252	64628.
4	2	1968	0.0	9 8	-77 42.9	-168 43.0	5497.5	10.9	254	64638.
4	2	1968	0.0	921	-77 43.5	-168 53.7	5499.8	9.2	271	64648.
4	2	1968	0.0	926	-77 43.5	-168 57.3	5500.6	6.5	267	64652.
4	2	1968	0.0	942	-77 43.6	-169 5.4	5502.3	11.0	273	64661.
4	2	1968	0.0	1045	-77 43.0	-169 59.6	5513.8	11.8	273	64725.
4	2	1968	0.0	1050	-77 43.0	-170 4.2	5514.8	11.4	282	64730.
4	2	1968	0.0	12 8	-77 39.8	-171 12.1	5529.6	11.0	75	64819.
4	2	1968	0.0	1245	-77 38.1	-170 41.4	5536.4	9.6	75	64793.
4	2	1968	0.0	1250	-77 37.9	-170 37.8	5537.2	11.6	75	64790.
4	2	1968	0.0	1346	-77 35.2	-169 49.2	5548.0	11.8	79	64748.
4	2	1968	0.0	1415	-77 34.1	-169 23.1	5553.7	12.1	111	64722.
4	2	1968	0.0	1552	-77 40.9	-167 57.8	5573.2	7.9	101	64593.
4	2	1968	0.0	16 7	-77 41.3	-167 48.7	5575.2	0.3	128	64581.
4	2	1968	0.0	1910	-77 42.0	-167 44.8	5576.3	0.4	77	64573.
4	2	1968	0.0	1943	-77 41.9	-167 43.9	5576.5	5.0	89	64572.
4	2	1968	0.0	1952	-77 41.9	-167 40.4	5577.2	2.8	173	64568.
4	2	1968	0.0	2050	-77 44.6	-167 38.7	5580.0	0.4	78	64555.
4	2	1968	0.0	21 2	-77 44.6	-167 38.3	5580.0	0.1	152	64554.
4	2	1968	0.0	2115	-77 44.6	-167 38.3	5580.0	4.5	120	64554.
4	2	1968	0.0	22 0	-77 46.3	-167 24.7	5583.4	0.1	154	64531.
4	2	1968	0.0	22 6	-77 46.3	-167 24.7	5583.4	12.0	86	64531.
4	2	1968	0.0	2318	-77 45.4	-166 16.8	5597.8	0.1	155	64453.
5	2	1968	0.0	0 6	-77 45.4	-166 16.7	5597.9	5.5	87	64452.
5	2	1968	0.0	027	-77 45.3	-166 7.7	5599.8	11.6	86	64442.
5	2	1968	0.0	058	-77 44.9	-165 39.4	5605.8	12.2	81	64407.
5	2	1968	0.0	130	-77 44.0	-165 9.2	5612.3	12.2	81	64373.
5	2	1968	0.0	3 0	-77 41.2	-163 43.9	5630.6	11.5	86	64274.
5	2	1968	0.0	325	-77 40.9	-163 21.5	5635.4	5.6	86	64246.
5	2	1968	0.0	348	-77 40.8	-163 11.5	5637.6	7.7	86	64233.
5	2	1968	0.0	4 7	-77 40.6	-163 0.0	5640.0	0.2	255	64219.

ELTANIN CRUISE 32

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
5	2	1968	0.0	825	-77 40.8	-163 3.5	5640.8	11.5	359	64223.
5	2	1968	0.0	925	-77 29.4	-163 4.3	5652.2	2.5	184	64266.
5	2	1968	0.0	1010	-77 31.2	-163 4.9	5654.1	2.2	186	64260.
5	2	1968	0.0	1035	-77 32.1	-163 5.4	5655.0	0.3	311	64258.
5	2	1968	0.0	11 8	-77 32.0	-163 6.0	5655.2	3.6	6	64259.
5	2	1968	0.0	1115	-77 31.6	-163 5.8	5655.6	7.2	8	64260.
5	2	1968	0.0	1133	-77 29.4	-163 4.5	5657.7	11.3	9	64266.
5	2	1968	0.0	1252	-77 14.7	-162 54.3	5672.7	11.6	10	64305.
5	2	1968	0.0	13 0	-77 13.2	-162 53.0	5674.2	11.4	42	64308.
5	2	1968	0.0	1424	-77 1.4	-162 5.1	5690.1	6.5	81	64281.
5	2	1968	0.0	1440	-77 1.1	-161 57.4	5691.9	0.4	19	64271.
5	2	1968	0.0	1527	-77 0.8	-161 57.0	5692.2	1.6	188	64271.
5	2	1968	0.0	1622	-77 2.3	-161 57.9	5693.6	0.4	19	64268.
5	2	1968	0.0	1630	-77 2.2	-161 57.8	5693.7	1.2	359	64268.
5	2	1968	0.0	1640	-77 2.0	-161 57.8	5693.9	3.3	180	64268.
5	2	1968	0.0	17 0	-77 3.1	-161 57.8	5695.0	2.8	180	64265.
5	2	1968	0.0	1750	-77 5.5	-161 57.9	5697.3	10.8	180	64257.
5	2	1968	0.0	18 0	-77 7.3	-161 57.9	5699.1	13.2	360	64251.
5	2	1968	0.0	1812	-77 4.7	-161 57.9	5701.7	11.7	303	64260.
5	2	1968	0.0	1831	-77 2.6	-162 11.8	5705.4	12.9	309	64286.
5	2	1968	0.0	1854	-76 59.5	-162 28.9	5710.4	13.0	303	64321.
5	2	1968	0.0	19 1	-76 58.7	-162 34.6	5711.9	11.5	336	64331.
5	2	1968	0.0	1920	-76 55.4	-162 41.1	5715.6	13.0	346	64351.
5	2	1968	0.0	1945	-76 50.1	-162 46.8	5721.0	12.3	299	64376.
5	2	1968	0.0	2030	-76 45.7	-163 22.3	5730.2	7.2	297	64440.
5	2	1968	0.0	2045	-76 44.8	-163 29.3	5732.0	13.3	299	64453.
5	2	1968	0.0	2057	-76 43.6	-163 39.5	5734.7	12.5	346	64471.
5	2	1968	0.0	22 3	-76 30.2	-163 53.6	5748.4	11.9	26	64533.
5	2	1968	0.0	2238	-76 24.0	-163 40.5	5755.4	10.9	360	64534.
5	2	1968	0.0	2248	-76 22.2	-163 40.6	5757.2	4.1	352	64539.
5	2	1968	0.0	23 5	-76 21.0	-163 41.3	5758.3	0.9	279	64543.
6	2	1968	0.0	0 4	-76 20.9	-163 45.0	5759.2	0.9	224	64549.
6	2	1968	0.0	010	-76 21.0	-163 45.3	5759.3	7.5	293	64549.
6	2	1968	0.0	015	-76 20.7	-163 47.7	5759.9	9.5	237	64553.
6	2	1968	0.0	024	-76 21.5	-163 52.8	5761.4	12.7	261	64558.
6	2	1968	0.0	032	-76 21.7	-163 59.9	5763.1	11.5	316	64568.
6	2	1968	0.0	045	-76 20.0	-164 7.3	5765.5	11.7	291	64584.
6	2	1968	0.0	1 4	-76 18.6	-164 21.9	5769.2	12.8	241	64608.
6	2	1968	0.0	116	-76 19.9	-164 31.3	5771.8	12.6	267	64618.
6	2	1968	0.0	120	-76 19.9	-164 34.9	5772.6	7.7	265	64623.
6	2	1968	0.0	131	-76 20.1	-164 40.9	5774.1	10.6	267	64631.
6	2	1968	0.0	140	-76 20.2	-164 47.6	5775.7	12.4	296	64640.
6	2	1968	0.0	154	-76 18.9	-164 58.6	5778.6	12.2	296	64659.
6	2	1968	0.0	241	-76 14.7	-165 34.8	5788.1	11.6	281	64723.
6	2	1968	0.0	321	-76 13.3	-166 6.7	5795.8	11.8	316	64771.
6	2	1968	0.0	342	-76 10.3	-166 18.7	5800.0	12.9	314	64797.
6	2	1968	0.0	4 3	-76 7.1	-166 32.2	5804.5	12.5	324	64825.
6	2	1968	0.0	425	-76 3.5	-166 43.5	5809.0	13.6	251	64852.
6	2	1968	0.0	456	-76 5.8	-167 11.0	5816.1	13.0	250	64882.
6	2	1968	0.0	512	-76 6.9	-167 24.7	5819.5	12.8	278	64897.
6	2	1968	0.0	525	-76 6.5	-167 36.1	5822.3	13.2	250	64913.
6	2	1968	0.0	628	-76 11.2	-168 30.6	5836.2	12.9	269	64971.
6	2	1968	0.0	633	-76 11.2	-168 35.1	5837.2	10.5	269	64976.
6	2	1968	0.0	642	-76 11.2	-168 41.7	5838.8	10.1	271	64985.
6	2	1968	0.0	643	-76 11.2	-168 42.4	5839.0	10.9	271	64986.
6	2	1968	0.0	658	-76 11.2	-168 53.8	5841.7	7.4	271	65001.
6	2	1968	0.0	7 5	-76 11.2	-168 57.4	5842.6	7.6	280	65005.
6	2	1968	0.0	716	-76 10.9	-169 3.2	5844.0	4.4	316	65013.
6	2	1968	0.0	725	-76 10.4	-169 5.1	5844.6	5.5	99	65018.
6	2	1968	0.0	728	-76 10.5	-169 4.0	5844.9	7.9	223	65016.
6	2	1968	0.0	735	-76 11.2	-169 6.6	5845.8	11.9	271	65017.
6	2	1968	0.0	745	-76 11.1	-169 15.0	5847.8	11.2	323	65028.
6	2	1968	0.0	750	-76 10.4	-169 17.3	5848.7	11.6	3	65033.
6	2	1968	0.0	834	-76 1.9	-169 15.7	5857.2	11.5	3	65059.
6	2	1968	0.0	855	-75 57.9	-169 15.0	5861.2	11.9	295	65071.
6	2	1968	0.0	915	-75 56.3	-169 29.9	5865.2	11.9	261	65096.
6	2	1968	0.0	926	-75 56.6	-169 38.8	5867.4	11.3	242	65 06.
6	2	1968	0.0	10 0	-75 59.6	-170 2.1	5873.8	11.5	285	65126.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
6	2	1968	0.0	1035	-75 57.9	-170 28.9	5880.5	11.5	325	65166.
6	2	1968	0.0	1054	-75 54.9	-170 37.4	5884.2	11.6	321	65186.
6	2	1968	0.0	1055	-75 54.7	-170 37.9	5884.4	12.2	264	65188.
6	2	1968	0.0	1123	-75 55.3	-171 1.2	5890.1	11.9	303	65215.
6	2	1968	0.0	1155	-75 51.9	-171 23.0	5896.4	12.2	282	65253.
6	2	1968	0.0	1215	-75 51.0	-171 39.4	5900.5	12.3	273	65276.
6	2	1968	0.0	1235	-75 50.8	-171 56.2	5904.6	11.8	305	65298.
6	2	1968	0.0	1252	-75 48.9	-172 7.4	5907.9	10.9	306	65318.
6	2	1968	0.0	13 0	-75 48.0	-172 12.2	5909.4	11.5	264	65327.
6	2	1968	0.0	1315	-75 48.4	-172 23.9	5912.3	11.5	224	65340.
6	2	1968	0.0	1330	-75 50.4	-172 31.9	5915.1	11.1	281	65343.
6	2	1968	0.0	14 5	-75 49.2	-172 57.9	5921.6	11.6	238	65378.
6	2	1968	0.0	1423	-75 51.0	-173 9.9	5925.1	11.4	267	65386.
6	2	1968	0.0	1455	-75 51.4	-173 34.7	5931.2	2.3	173	65414.
6	2	1968	0.0	1615	-75 54.4	-173 33.1	5934.2	11.1	286	65401.
6	2	1968	0.0	1628	-75 53.8	-173 42.5	5936.6	12.3	292	65415.
6	2	1968	0.0	1640	-75 52.8	-173 51.9	5939.1	12.4	304	65429.
6	2	1968	0.0	17 0	-75 50.5	-174 5.9	5943.2	12.3	319	65453.
6	2	1968	0.0	1730	-75 45.9	-174 22.4	5949.4	12.2	346	65489.
6	2	1968	0.0	1750	-75 41.9	-174 26.4	5953.5	11.9	355	65507.
6	2	1968	0.0	1820	-75 36.0	-174 28.4	5959.4	8.7	358	65530.
6	2	1968	0.0	1855	-75 30.9	-174 29.1	5964.5	11.4	355	65548.
6	2	1968	0.0	1955	-75 19.5	-174 33.0	5976.0	9.9	85	65589.
6	2	1968	0.0	20 0	-75 19.4	-174 29.7	5976.8	10.6	354	65586.
6	2	1968	0.0	20 4	-75 18.7	-174 30.0	5977.5	10.3	355	65588.
6	2	1968	0.0	21 2	-75 8.8	-174 33.6	5987.4	9.2	358	65624.
6	2	1968	0.0	2115	-75 6.9	-174 33.9	5989.4	10.1	46	65630.
6	2	1968	0.0	2210	-75 0.4	-174 8.1	5998.7	10.3	358	65618.
6	2	1968	0.0	2240	-74 55.2	-174 8.7	6003.8	9.8	337	65634.
6	2	1968	0.0	2250	-74 53.7	-174 11.1	6005.5	10.1	182	65641.
6	2	1968	0.0	23 0	-74 55.4	-174 11.3	6007.1	0.6	212	65637.
7	2	1968	0.0	024	-74 56.1	-174 13.0	6008.0	3.6	198	65637.
7	2	1968	0.0	1 2	-74 58.3	-174 15.7	6010.2	1.1	206	65634.
7	2	1968	0.0	224	-74 59.7	-174 18.3	6011.8	1.9	8	65633.
7	2	1968	0.0	230	-74 59.5	-174 18.2	6012.0	6.9	2	65633.
7	2	1968	0.0	3 0	-74 56.1	-174 17.7	6015.4	1.9	8	65643.
7	2	1968	0.0	4 4	-74 54.1	-174 16.6	6017.4	0.6	313	65647.
7	2	1968	0.0	515	-74 53.6	-174 18.7	6018.2	5.4	355	65651.
7	2	1968	0.0	526	-74 52.6	-174 19.0	6019.2	0.6	313	65654.
7	2	1968	0.0	736	-74 51.7	-174 22.7	6020.5	2.0	270	65661.
7	2	1968	0.0	814	-74 51.7	-174 27.6	6021.7	1.4	341	65667.
7	2	1968	0.0	1022	-74 48.8	-174 31.4	6024.8	2.0	353	65680.
7	2	1968	0.0	1045	-74 48.0	-174 31.8	6025.6	11.0	299	65683.
7	2	1968	0.0	11 0	-74 46.7	-174 41.0	6028.3	6.0	289	65698.
7	2	1968	0.0	1152	-74 45.0	-174 59.8	6033.6	5.2	272	65726.
7	2	1968	0.0	1218	-74 45.0	-175 8.3	6035.8	4.4	176	65736.
7	2	1968	0.0	1230	-74 45.8	-175 8.1	6036.7	0.3	64	65734.
7	2	1968	0.0	1350	-74 45.6	-175 6.7	6037.1	0.4	81	65732.
7	2	1968	0.0	1415	-74 45.6	-175 6.1	6037.2	6.0	233	65732.
7	2	1968	0.0	1534	-74 50.4	-175 30.5	6045.2	6.7	238	65747.
7	2	1968	0.0	1624	-74 53.3	-175 48.6	6050.8	6.2	242	65760.
7	2	1968	0.0	1712	-74 55.7	-176 5.5	6055.8	6.1	235	65772.
7	2	1968	0.0	1830	-75 0.3	-176 30.5	6063.7	6.2	89	65787.
7	2	1968	0.0	1840	-75 0.3	-176 26.5	6064.7	4.7	177	65783.
7	2	1968	0.0	1845	-75 0.6	-176 26.4	6065.1	0.9	178	65781.
7	2	1968	0.0	19 0	-75 0.9	-176 26.4	6065.3	0.9	131	65780.
7	2	1968	0.0	2040	-75 1.9	-176 21.9	6066.9	1.5	229	65772.
7	2	1968	0.0	21 0	-75 2.2	-176 23.4	6067.4	1.5	230	65773.
7	2	1968	0.0	2152	-75 3.0	-176 27.3	6068.7	1.1	246	65775.
7	2	1968	0.0	2315	-75 3.7	-176 32.7	6070.2	10.8	15	65779.
7	2	1968	0.0	2345	-74 58.4	-176 27.3	6075.6	10.9	5	65789.
8	2	1968	0.0	041	-74 48.3	-176 23.6	6085.8	10.2	15	65816.
8	2	1968	0.0	158	-74 35.6	-176 11.0	6098.9	10.0	25	65838.
8	2	1968	0.0	245	-74 28.5	-175 58.4	6106.8	9.9	15	65843.
8	2	1968	0.0	410	-74 14.9	-175 44.7	6120.8	10.5	11	65862.
8	2	1968	0.0	415	-74 14.1	-175 44.1	6121.7	7.4	48	65864.
8	2	1968	0.0	435	-74 12.4	-175 37.4	6124.1	13.0	49	65860.
8	2	1968	0.0	534	-74 4.1	-175 2.3	6136.9	11.8	262	65836.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
8	2	1968	0.0	542	-74 4.3	-175 8.0	6138.5	12.4	337	65843.
8	2	1968	0.0	548	-74 3.1	-175 9.8	6139.7	0.5	20	65848.
8	2	1968	0.0	6 0	-74 3.0	-175 9.6	6139.8	0.5	150	65848.
8	2	1968	0.0	1050	-74 5.2	-175 5.1	6142.3	2.9	188	65837.
8	2	1968	0.0	11 2	-74 5.8	-175 5.4	6142.9	1.9	173	65836.
8	2	1968	0.0	13 5	-74 9.6	-175 3.6	6146.7	1.1	57	65824.
8	2	1968	0.0	1550	-74 8.0	-174 54.6	6149.6	4.0	167	65817.
8	2	1968	0.0	1620	-74 9.9	-174 32.9	6151.6	2.5	205	65810.
8	2	1968	0.0	1916	-74 16.5	-175 4.2	6158.9	9.9	32	65808.
8	2	1968	0.0	1945	-74 12.4	-174 55.1	6163.7	7.8	73	65807.
8	2	1968	0.0	20 8	-74 11.6	-174 44.5	6166.7	8.8	77	65795.
8	2	1968	0.0	20 9	-74 11.5	-174 44.0	6166.8	10.1	335	65795.
8	2	1968	0.0	2027	-74 8.8	-174 48.6	6169.8	10.4	360	65807.
8	2	1968	0.0	2032	-74 7.9	-174 48.6	6170.7	10.5	8	65810.
8	2	1968	0.0	2112	-74 1.0	-174 45.1	6177.7	7.4	259	65821.
8	2	1968	0.0	2121	-74 1.2	-174 49.1	6178.8	10.6	8	65826.
8	2	1968	0.0	22 0	-73 54.4	-174 45.6	6185.7	7.4	338	65837.
8	2	1968	0.0	22 5	-73 53.8	-174 46.4	6186.3	7.2	354	65839.
8	2	1968	0.0	2224	-73 51.5	-174 47.3	6188.6	6.8	280	65846.
8	2	1968	0.0	2253	-73 51.0	-174 59.0	6191.9	7.4	321	65862.
8	2	1968	0.0	23 5	-73 49.8	-175 2.3	6193.4	6.0	243	65869.
8	2	1968	0.0	2315	-73 50.3	-175 5.5	6194.4	7.3	338	65872.
8	2	1968	0.0	2330	-73 48.6	-175 8.0	6196.2	4.7	125	65879.
8	2	1968	0.0	2341	-73 49.1	-175 5.5	6197.1	1.4	327	65875.
9	2	1968	0.0	036	-73 48.0	-175 8.0	6198.3	15.1	339	65880.
9	2	1968	0.0	043	-73 46.4	-175 10.2	6200.1	11.3	321	65887.
9	2	1968	0.0	134	-73 38.9	-175 32.0	6209.7	12.0	328	65931.
9	2	1968	0.0	145	-73 37.0	-175 36.1	6211.9	11.9	32	65940.
9	2	1968	0.0	222	-73 30.8	-175 22.3	6219.3	7.3	20	65935.
9	2	1968	0.0	235	-73 29.3	-175 20.4	6220.9	12.0	32	65936.
9	2	1968	0.0	3 8	-73 23.8	-175 8.0	6227.5	9.1	7	65930.
9	2	1968	0.0	317	-73 22.4	-175 7.4	6228.8	12.5	360	65932.
9	2	1968	0.0	350	-73 15.5	-175 7.4	6235.7	12.1	32	65945.
9	2	1968	0.0	4 2	-73 13.5	-175 2.9	6238.1	10.1	33	65943.
9	2	1968	0.0	415	-73 11.7	-174 58.8	6240.3	3.5	219	65941.
9	2	1968	0.0	420	-73 11.9	-174 59.4	6240.6	4.8	214	65941.
9	2	1968	0.0	432	-73 12.7	-175 1.3	6241.6	7.3	188	65942.
9	2	1968	0.0	512	-73 17.5	-175 3.5	6246.5	8.4	183	65936.
9	2	1968	0.0	518	-73 18.4	-175 3.7	6247.3	0.7	228	65935.
9	2	1968	0.0	730	-73 19.3	-175 7.5	6248.7	0.6	164	65938.
9	2	1968	0.0	914	-73 20.4	-175 6.4	6249.8	0.9	52	65935.
9	2	1968	0.0	1147	-73 18.9	-174 59.9	6252.2	3.7	89	65929.
9	2	1968	0.0	1158	-73 18.9	-174 57.5	6252.9	0.5	88	65926.
9	2	1968	0.0	1439	-73 18.8	-174 52.6	6254.3	2.5	282	65919.
9	2	1968	0.0	1523	-73 18.4	-174 58.8	6256.1	6.3	262	65928.
9	2	1968	0.0	1548	-73 18.8	-175 7.9	6258.7	3.1	268	65940.
9	2	1968	0.0	18 0	-73 19.0	-175 31.9	6265.7	1.4	26	65971.
9	2	1968	0.0	18 6	-73 18.9	-175 31.7	6265.8	10.4	176	65971.
9	2	1968	0.0	19 0	-73 28.3	-175 29.6	6275.2	9.9	233	65950.
9	2	1968	0.0	19 6	-73 28.9	-175 32.4	6276.2	12.9	225	65952.
9	2	1968	0.0	1923	-73 31.4	-175 41.6	6279.8	13.9	217	65959.
9	2	1968	0.0	1939	-73 34.4	-175 49.4	6283.5	12.6	252	65963.
9	2	1968	0.0	1954	-73 35.4	-176 0.1	6286.7	10.5	300	65974.
9	2	1968	0.0	2015	-73 33.5	-176 11.4	6290.4	11.5	290	65993.
9	2	1968	0.0	2039	-73 31.9	-176 26.6	6295.0	10.2	322	66016.
9	2	1968	0.0	21 6	-73 28.3	-176 36.6	6299.6	13.5	329	66036.
9	2	1968	0.0	22 0	-73 17.9	-176 58.6	6311.7	2.1	322	66085.
9	2	1968	0.0	23 0	-73 16.3	-177 3.0	6313.8	0.5	156	66094.
10	2	1968	0.0	018	-73 16.9	-177 2.1	6314.4	0.8	176	66092.
10	2	1968	0.0	118	-73 17.7	-177 1.9	6315.3	4.3	325	66090.
10	2	1968	0.0	130	-73 17.0	-177 3.6	6316.1	1.8	318	66093.
10	2	1968	0.0	250	-73 15.3	-177 9.1	6318.5	0.8	177	66104.
10	2	1968	0.0	254	-73 15.3	-177 9.1	6318.5	1.8	318	66104.
10	2	1968	0.0	3 6	-73 15.0	-177 9.9	6318.9	2.4	315	66105.
10	2	1968	0.0	410	-73 13.3	-177 16.1	6321.4	0.7	222	66117.
10	2	1968	0.0	411	-73 13.3	-177 16.2	6321.4	9.9	311	66117.
10	2	1968	0.0	553	-73 2.1	-177 59.9	6338.3	0.7	219	66193.
10	2	1968	0.0	630	-73 2.4	-178 0.8	6338.7	1.9	300	66194.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
10	2	1968	0.0	7 5	-73 1.9	-178 4.1	6339.8	3.1	313	66199.
10	2	1968	0.0	720	-73 1.4	-178 6.0	6340.6	1.9	305	66202.
10	2	1968	0.0	756	-73 0.7	-178 9.1	6341.7	2.1	308	66208.
10	2	1968	0.0	8 0	-73 0.6	-178 9.5	6341.9	0.6	244	66208.
10	2	1968	0.0	830	-73 0.8	-178 10.5	6342.2	11.5	342	66 09.
10	2	1968	0.0	845	-72 58.0	-178 13.6	6345.0	11.8	226	66218.
10	2	1968	0.0	9 7	-73 1.1	-178 24.2	6349.4	11.6	231	66226.
10	2	1968	0.0	937	-73 4.7	-178 39.6	6355.2	11.7	245	66237.
10	2	1968	0.0	1030	-73 9.1	-179 12.0	6365.6	11.8	250	66268.
10	2	1968	0.0	1045	-73 10.2	-179 21.5	6368.5	11.8	264	66277.
10	2	1968	0.0	11 9	-73 10.7	-179 37.8	6373.2	10.6	231	66295.
10	2	1968	0.0	1118	-73 11.7	-179 42.1	6374.8	11.7	357	66298.
10	2	1968	0.0	1126	-73 10.1	-179 42.3	6376.4	11.3	347	66301.
10	2	1968	0.0	12 0	-73 3.9	-179 47.3	6382.8	11.8	347	66321.
10	2	1968	0.0	1210	-73 2.0	-179 48.8	6384.8	10.6	18	66326.
10	2	1968	0.0	1230	-72 58.6	-179 45.1	6388.3	11.0	65	66329.
10	2	1968	0.0	1248	-72 57.2	-179 34.9	6391.6	10.9	44	66319.
10	2	1968	0.0	13 0	-72 55.6	-179 29.7	6393.8	10.8	55	66316.
10	2	1968	0.0	1312	-72 54.4	-179 23.7	6396.0	12.1	54	66312.
10	2	1968	0.0	1320	-72 53.4	-179 19.3	6397.6	11.2	353	66308.
10	2	1968	0.0	1339	-72 49.9	-179 20.8	6401.1	10.3	338	66317.
10	2	1968	0.0	1348	-72 48.5	-179 22.8	6402.6	10.2	283	66322.
10	2	1968	0.0	1420	-72 47.2	-179 40.7	6408.1	12.9	338	66346.
10	2	1968	0.0	1440	-72 43.3	-179 46.2	6412.4	13.5	330	66360.
10	2	1968	0.0	1450	-72 41.3	-179 49.9	6414.6	12.4	354	66368.
10	2	1968	0.0	15 5	-72 38.2	-179 51.0	6417.7	11.5	334	66375.
10	2	1968	0.0	1615	-72 26.2	179 49.5	6431.1	17.9	351	66420.
10	2	1968	0.0	1628	-72 22.3	179 47.4	6435.0	16.1	357	66429.
10	2	1968	0.0	1639	-72 19.4	179 46.9	6438.0	11.6	258	66434.
10	2	1968	0.0	1648	-72 19.8	179 41.3	6439.7	13.2	219	66440.
10	2	1968	0.0	1714	-72 24.2	179 29.5	6445.4	12.7	222	66447.
10	2	1968	0.0	1723	-72 25.6	179 25.3	6447.3	12.8	112	66450.
10	2	1968	0.0	1742	-72 27.1	179 37.8	6451.4	13.0	136	66432.
10	2	1968	0.0	18 2	-72 30.2	179 47.8	6455.7	13.0	179	66415.
10	2	1968	0.0	1814	-72 32.8	179 48.0	6458.3	13.5	182	66410.
10	2	1968	0.0	1817	-72 33.5	179 47.9	6459.0	12.9	140	66409.
10	2	1968	0.0	1845	-72 38.2	-179 59.2	6465.0	13.6	182	66385.
10	2	1968	0.0	19 2	-72 42.0	-179 59.7	6468.8	12.0	181	66378.
10	2	1968	0.0	2044	-73 2.4	179 59.2	6489.3	0.5	330	66340.
10	2	1968	0.0	2045	-73 2.4	179 59.2	6489.3	10.8	181	66340.
10	2	1968	0.0	21 0	-73 5.1	179 59.0	6492.0	0.4	335	66334.
10	2	1968	0.0	2220	-73 4.6	179 58.2	6492.6	11.9	354	66336.
10	2	1968	0.0	23 5	-72 55.7	179 55.1	6501.5	12.2	335	66358.
10	2	1968	0.0	2328	-72 51.5	179 48.4	6506.1	12.7	334	66375.
10	2	1968	0.0	2330	-72 51.1	179 47.8	6506.6	12.1	353	66376.
11	2	1968	0.0	0 4	-72 44.3	179 44.9	6513.4	13.4	344	66393.
11	2	1968	0.0	015	-72 42.0	179 42.6	6515.8	12.7	353	66400.
11	2	1968	0.0	114	-72 29.6	179 37.5	6528.3	13.1	355	66428.
11	2	1968	0.0	135	-72 25.0	179 36.2	6532.9	11.4	235	66438.
11	2	1968	0.0	139	-72 25.5	179 34.2	6533.7	10.1	276	66439.
11	2	1968	0.0	144	-72 25.4	179 31.4	6534.5	10.2	270	66443.
11	2	1968	0.0	254	-72 25.4	178 52.0	6546.4	10.2	250	66490.
11	2	1968	0.0	315	-72 26.6	178 40.9	6549.9	10.1	260	66501.
11	2	1968	0.0	336	-72 27.2	178 29.3	6553.5	9.7	256	66514.
11	2	1968	0.0	350	-72 27.7	178 22.0	6555.8	9.7	267	66521.
11	2	1968	0.0	429	-72 28.1	178 1.2	6562.0	0.6	154	66545.
11	2	1968	0.0	430	-72 28.1	178 1.2	6562.1	15.1	288	66545.
11	2	1968	0.0	445	-72 26.9	177 49.3	6565.8	9.6	266	66561.
11	2	1968	0.0	446	-72 26.9	177 48.8	6566.0	11.2	271	66561.
11	2	1968	0.0	532	-72 26.8	177 20.5	6574.5	10.8	257	66594.
11	2	1968	0.0	615	-72 28.5	176 55.5	6582.3	10.6	271	66618.
11	2	1968	0.0	722	-72 28.4	176 16.2	6594.1	8.4	89	66662.
11	2	1968	0.0	820	-72 28.3	176 43.0	6602.2	9.4	88	66633.
11	2	1968	0.0	848	-72 28.1	176 57.6	6606.6	3.7	116	66617.
11	2	1968	0.0	854	-72 28.2	176 58.7	6607.0	0.4	343	66615.
11	2	1968	0.0	1016	-72 27.7	176 58.2	6607.5	1.0	19	66617.
11	2	1968	0.0	1040	-72 27.3	176 58.6	6607.9	1.2	351	66617.
11	2	1968	0.0	1339	-72 23.9	176 56.9	6611.3	2.4	104	66625.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
11	2	1968	0.0	1534	-72 25.0	177 11.5	6615.9	1.4	94	66607.
11	2	1968	0.0	1545	-72 25.1	177 12.3	6616.1	1.9	327	66606.
11	2	1968	0.0	1550	-72 24.9	177 12.0	6616.3	3.0	103	66607.
11	2	1968	0.0	1724	-72 25.9	177 27.1	6620.9	2.5	143	66588.
11	2	1968	0.0	1810	-72 27.5	177 30.9	6622.9	3.9	138	66581.
11	2	1968	0.0	1825	-72 28.2	177 33.0	6623.8	0.8	106	66577.
11	2	1968	0.0	1830	-72 28.2	177 33.2	6623.9	12.0	274	66577.
11	2	1968	0.0	1839	-72 28.1	177 27.3	6625.7	5.3	278	66583.
11	2	1968	0.0	1848	-72 28.0	177 24.6	6626.5	11.5	274	66587.
11	2	1968	0.0	1930	-72 27.5	176 58.0	6634.5	12.8	278	66618.
11	2	1968	0.0	1935	-72 27.3	176 54.5	6635.6	11.9	241	66622.
11	2	1968	0.0	1945	-72 28.3	176 48.8	6637.6	12.8	278	66626.
11	2	1968	0.0	1958	-72 27.9	176 39.6	6640.4	11.0	276	66637.
11	2	1968	0.0	22 0	-72 25.6	175 25.8	6662.7	1.3	25	66721.
11	2	1968	0.0	22 5	-72 25.5	175 26.0	6662.8	1.9	132	66721.
11	2	1968	0.0	2234	-72 26.1	175 28.2	6663.8	2.7	150	66718.
11	2	1968	0.0	2254	-72 26.9	175 29.7	6664.7	10.6	312	66714.
12	2	1968	0.0	0 1	-72 19.0	175 0.6	6676.5	0.5	86	66761.
12	2	1968	0.0	058	-72 19.0	175 2.1	6677.0	5.6	308	66760.
12	2	1968	0.0	1 0	-72 18.8	175 1.6	6677.1	9.6	307	66760.
12	2	1968	0.0	145	-72 14.5	174 42.6	6684.4	9.1	291	66789.
12	2	1968	0.0	315	-72 9.6	174 0.9	6698.0	8.7	270	66841.
12	2	1968	0.0	330	-72 9.6	173 53.8	6700.2	9.1	260	66849.
12	2	1968	0.0	515	-72 12.4	173 2.8	6716.1	7.8	265	66894.
12	2	1968	0.0	555	-72 12.9	172 45.9	6721.3	6.7	254	66909.
12	2	1968	0.0	6 5	-72 13.2	172 42.4	6722.4	8.0	350	66912.
12	2	1968	0.0	754	-71 58.9	172 34.3	6736.9	4.9	352	66949.
12	2	1968	0.0	8 5	-71 58.0	172 34.0	6737.8	6.2	24	66951.
12	2	1968	0.0	810	-71 57.5	172 34.6	6738.3	2.1	298	66952.
12	2	1968	0.0	1030	-71 55.3	172 20.8	6743.1	0.5	86	66969.
12	2	1968	0.0	1130	-71 55.2	172 22.4	6743.6	10.6	293	66968.
12	2	1968	0.0	12 0	-71 53.2	172 6.7	6748.9	6.6	299	66987.
12	2	1968	0.0	14 2	-71 46.6	171 29.1	6762.3	5.6	294	67036.
12	2	1968	0.0	1441	-71 45.2	171 18.5	6765.9	0.5	85	67049.
12	2	1968	0.0	1448	-71 45.2	171 18.6	6766.0	3.1	89	67049.
12	2	1968	0.0	15 9	-71 45.1	171 22.1	6767.1	0.5	86	67046.
12	2	1968	0.0	1539	-71 45.1	171 22.8	6767.3	5.5	90	67045.
12	2	1968	0.0	1720	-71 45.1	171 52.2	6776.5	8.5	90	67017.
12	2	1968	0.0	18 5	-71 45.0	172 12.5	6782.9	0.5	86	66997.
12	2	1968	0.0	1845	-71 45.0	172 13.5	6783.2	2.3	335	66996.
12	2	1968	0.0	1930	-71 43.4	172 11.2	6784.9	0.5	85	67001.
12	2	1968	0.0	1936	-71 43.4	172 11.3	6785.0	11.4	337	67001.
12	2	1968	0.0	2030	-71 34.0	171 58.4	6795.3	0.5	86	67031.
12	2	1968	0.0	2336	-71 33.9	172 3.1	6796.7	12.0	352	67026.
12	2	1968	0.0	2341	-71 32.9	172 2.7	6797.7	11.0	337	67029.
13	2	1968	0.0	023	-71 25.8	171 53.1	6805.5	0.5	86	67050.
13	2	1968	0.0	111	-71 25.8	171 54.3	6805.8	10.0	337	67049.
13	2	1968	0.0	130	-71 22.9	171 50.4	6809.0	10.5	2	67058.
13	2	1968	0.0	336	-71 0.8	171 52.7	6831.1	0.5	86	67089.
13	2	1968	0.0	945	-71 0.6	172 1.8	6834.0	2.6	10	67080.
13	2	1968	0.0	1215	-70 54.2	172 5.1	6840.5	11.0	90	67085.
13	2	1968	0.0	13 0	-70 54.2	172 30.4	6848.8	2.9	89	67058.
13	2	1968	0.0	1348	-70 54.2	172 37.4	6851.0	11.3	90	67051.
13	2	1968	0.0	14 9	-70 54.1	172 49.5	6855.0	11.0	332	67038.
13	2	1968	0.0	15 0	-70 45.9	172 35.9	6864.4	11.7	90	67063.
13	2	1968	0.0	16 9	-70 45.9	173 16.7	6877.9	11.6	331	67018.
13	2	1968	0.0	1630	-70 42.3	173 10.8	6881.9	12.5	90	67028.
13	2	1968	0.0	1815	-70 42.2	174 17.0	6903.8	9.7	90	66954.
13	2	1968	0.0	1830	-70 42.2	174 24.3	6906.2	6.5	90	66945.
13	2	1968	0.0	1839	-70 42.2	174 27.3	6907.2	10.5	90	66942.
13	2	1968	0.0	1845	-70 42.2	174 30.4	6908.2	5.5	90	66938.
13	2	1968	0.0	19 9	-70 42.2	174 37.1	6910.4	7.1	343	66930.
13	2	1968	0.0	1924	-70 40.5	174 35.5	6912.2	9.8	90	66934.
13	2	1968	0.0	1935	-70 40.5	174 40.9	6914.0	11.2	128	66928.
13	2	1968	0.0	1949	-70 42.1	174 47.1	6916.6	12.4	138	66919.
13	2	1968	0.0	20 0	-70 43.8	174 51.7	6918.9	12.0	142	66912.
13	2	1968	0.0	2030	-70 48.5	175 2.8	6924.9	10.9	137	66894.
13	2	1968	0.0	2034	-70 49.0	175 4.3	6925.6	28.9	90	66892.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
13	2	1968	0.0	2115	-70 49.0	176 4.4	6945.3	3.9	63	66820.
14	2	1968	0.0	030	-70 43.3	176 38.3	6957.9	10.4	61	66783.
14	2	1968	0.0	045	-70 42.1	176 45.2	6960.4	11.9	75	66776.
14	2	1968	0.0	120	-70 40.3	177 5.5	6967.4	11.7	2	66752.
14	2	1968	0.0	210	-70 30.6	177 6.4	6977.1	11.3	1	66757.
14	2	1968	0.0	239	-70 25.1	177 6.9	6982.6	4.6	4	66760
14	2	1968	0.0	3 0	-70 23.5	177 7.2	6984.2	6.7	2	66760
14	2	1968	0.0	423	-70 14.2	177 8.3	6993.5	0.4	136	66763.
14	2	1968	0.0	446	-70 14.3	177 8.6	6993.6	0.4	125	66763.
14	2	1968	0.0	630	-70 14.7	177 10.3	6994.3	0.5	219	66760.
14	2	1968	0.0	818	-70 15.4	177 8.8	6995.2	0.4	162	66762.
14	2	1968	0.0	1114	-70 16.6	177 10.0	6996.4	1.9	154	66760.
14	2	1968	0.0	1124	-70 16.8	177 10.4	6996.7	4.1	239	66759.
14	2	1968	0.0	12 5	-70 18.3	177 3.2	6999.5	4.3	86	66768.
14	2	1968	0.0	1223	-70 18.2	177 7.0	7000.8	8.0	124	66763.
14	2	1968	0.0	1238	-70 19.3	177 11.9	7002.8	7.9	143	66756.
14	2	1968	0.0	1247	-70 20.2	177 14.0	7004.0	7.6	174	66753.
14	2	1968	0.0	1318	-70 24.1	177 15.3	7007.9	6.4	87	66749.
14	2	1968	0.0	1332	-70 24.0	177 19.8	7009.4	6.2	75	66744.
14	2	1968	0.0	1335	-70 24.0	177 20.7	7009.7	7.1	168	66742.
14	2	1968	0.0	1346	-70 25.3	177 21.5	7011.0	6.5	186	66741.
14	2	1968	0.0	1354	-70 26.1	177 21.2	7011.9	6.6	168	66741.
14	2	1968	0.0	1411	-70 27.9	177 22.4	7013.7	6.3	200	66738.
14	2	1968	0.0	1424	-70 29.2	177 21.0	7015.1	11.7	178	66739.
14	2	1968	0.0	1439	-70 32.2	177 21.3	7018.0	6.1	95	66737.
14	2	1968	0.0	1452	-70 32.3	177 25.3	7019.4	5.4	81	66732.
14	2	1968	0.0	15 0	-70 32.2	177 27.4	7020.1	5.7	81	66729.
14	2	1968	0.0	15 6	-70 32.1	177 29.1	7020.7	10.7	85	66727.
14	2	1968	0.0	1520	-70 31.9	177 36.5	7023.1	10.5	97	66717.
14	2	1968	0.0	1530	-70 32.1	177 41.7	7024.9	12.9	183	66711.
14	2	1968	0.0	1545	-70 35.3	177 41.3	7028.1	11.5	96	66709.
14	2	1968	0.0	1554	-70 35.5	177 46.4	7029.8	11.3	137	66702.
14	2	1968	0.0	16 5	-70 37.0	177 50.7	7031.9	11.4	96	66696.
14	2	1968	0.0	1615	-70 37.2	177 56.4	7033.8	10.7	137	66688.
14	2	1968	0.0	1622	-70 38.1	177 58.9	7035.0	12.6	165	66684.
14	2	1968	0.0	1638	-70 41.3	178 1.6	7038.4	11.8	158	66679.
14	2	1968	0.0	1651	-70 43.7	178 4.5	7040.9	11.9	124	66674.
14	2	1968	0.0	17 4	-70 45.1	178 11.0	7043.5	11.0	121	66664.
14	2	1968	0.0	1745	-70 49.0	178 30.6	7051.0	11.4	85	66636.
14	2	1968	0.0	18 5	-70 48.7	178 42.1	7054.8	10.6	121	66621.
14	2	1968	0.0	1812	-70 49.3	178 45.3	7056.1	11.1	121	66616.
14	2	1968	0.0	1824	-70 50.5	178 51.1	7058.3	11.6	119	66608.
14	2	1968	0.0	1832	-70 51.2	178 55.3	7059.8	10.6	155	66602.
14	2	1968	0.0	19 0	-70 55.7	179 1.7	7064.8	11.1	160	66590.
14	2	1968	0.0	1923	-70 59.7	179 6.2	7069.1	11.7	89	66581.
14	2	1968	0.0	1948	-70 59.6	179 21.2	7073.9	6.0	87	66561.
14	2	1968	0.0	20 0	-70 59.5	179 24.9	7075.1	9.0	88	66557.
14	2	1968	0.0	2130	-70 59.1	-179 53.8	7088.6	5.1	4	66502.
14	2	1968	0.0	2145	-70 57.8	-179 53.6	7089.9	5.0	273	66502.
14	2	1968	0.0	2236	-70 57.6	179 53.4	7094.1	5.6	322	66520.
14	2	1968	0.0	2238	-70 57.4	179 53.1	7094.3	4.7	305	66520.
14	2	1968	0.0	2254	-70 56.7	179 50.0	7095.5	3.6	43	66525.
14	2	1968	0.0	23 0	-70 56.5	179 50.7	7095.9	3.9	127	66524.
14	2	1968	0.0	23 5	-70 56.6	179 51.5	7096.2	5.3	83	66523.
14	2	1968	0.0	23 9	-70 56.6	179 52.6	7096.6	4.5	298	66522.
14	2	1968	0.0	2315	-70 56.4	179 51.4	7097.0	6.4	187	66523.
14	2	1968	0.0	2336	-70 58.6	179 50.5	7099.3	6.1	183	66523.
15	2	1968	0.0	024	-71 3.5	179 49.7	7104.1	4.7	256	66521.
15	2	1968	0.0	036	-71 3.8	179 46.4	7105.2	6.2	179	66525.
15	2	1968	0.0	050	-71 5.0	179 46.5	7106.5	5.4	102	66524.
15	2	1968	0.0	1 5	-71 5.3	179 50.5	7107.8	3.6	2	66518.
15	2	1968	0.0	120	-71 4.4	179 50.6	7108.7	5.3	247	66519.
15	2	1968	0.0	133	-71 4.8	179 47.4	7109.9	6.3	171	66523.
15	2	1968	0.0	153	-71 6.9	179 48.4	7112.0	5.2	103	66520.
15	2	1968	0.0	2 8	-71 7.2	179 52.3	7113.3	3.6	72	66514.
15	2	1968	0.0	216	-71 7.0	179 53.7	7113.8	5.5	348	66513.
15	2	1968	0.0	230	-71 5.8	179 52.9	7115.0	5.3	344	66515.
15	2	1968	0.0	245	-71 4.5	179 51.7	7116.4	7.6	332	66517.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
15	2	1968	0.0	315	-71 1.1	179 46.3	7120.2	7.9	252	66527.
15	2	1968	0.0	430	-71 4.1	179 17.2	7130.1	10.6	276	66563.
15	2	1968	0.0	515	-71 3.3	178 52.8	7138.0	8.2	228	66596.
15	2	1968	0.0	530	-71 4.7	178 48.0	7140.1	10.5	276	66601.
15	2	1968	0.0	617	-71 3.8	178 22.8	7148.3	8.5	207	66634.
15	2	1968	0.0	645	-71 7.4	178 17.1	7152.3	10.6	276	66638.
15	2	1968	0.0	722	-71 6.7	177 57.0	7158.9	8.0	275	66664.
15	2	1968	0.0	757	-71 6.3	177 42.7	7163.5	8.8	307	66683.
15	2	1968	0.0	8 8	-71 5.3	177 38.7	7165.1	7.9	275	66689.
15	2	1968	0.0	836	-71 5.0	177 27.4	7168.8	5.3	262	66703.
15	2	1968	0.0	9 4	-71 5.3	177 19.9	7171.3	9.4	275	66712.
15	2	1968	0.0	9 5	-71 5.3	177 19.4	7171.4	11.4	274	66713.
15	2	1968	0.0	934	-71 4.9	177 2.5	7176.9	11.6	255	66734.
15	2	1968	0.0	945	-71 5.5	176 56.2	7179.1	11.4	274	66741.
15	2	1968	0.0	1028	-71 4.8	176 31.1	7187.2	12.0	278	66772.
15	2	1968	0.0	1052	-71 4.1	176 16.5	7192.0	10.9	271	66790.
15	2	1968	0.0	1150	-71 4.0	175 44.0	7202.5	10.4	261	66829.
15	2	1968	0.0	1154	-71 4.1	175 41.9	7203.2	11.0	255	66832.
15	2	1968	0.0	1235	-71 6.1	175 19.4	7210.8	11.1	261	66856.
15	2	1968	0.0	1246	-71 6.4	175 13.2	7212.8	10.2	273	66863.
15	2	1968	0.0	1324	-71 6.1	174 53.3	7219.3	11.7	319	66886.
15	2	1968	0.0	1355	-71 1.5	174 40.9	7225.4	11.1	293	66905.
15	2	1968	0.0	1424	-70 59.4	174 25.6	7230.7	14.7	297	66925.
15	2	1968	0.0	1445	-70 57.1	174 11.5	7235.9	14.7	300	66944.
15	2	1968	0.0	1544	-70 49.8	173 33.3	7250.4	8.8	301	66995.
15	2	1968	0.0	1620	-70 47.1	173 19.6	7255.6	11.8	352	67013.
15	2	1968	0.0	1732	-70 33.1	173 13.7	7269.8	11.7	334	67035.
15	2	1968	0.0	18 0	-70 28.2	173 6.5	7275.2	11.5	358	67048.
15	2	1968	0.0	18 4	-70 27.4	173 6.4	7276.0	11.4	2	67048.
15	2	1968	0.0	20 0	-70 5.5	173 8.7	7298.0	11.3	45	67064.
15	2	1968	0.0	2020	-70 2.8	173 16.6	7301.8	11.4	88	67056.
15	2	1968	0.0	2248	-70 1.9	174 39.1	7330.0	11.2	96	66958.
15	2	1968	0.0	2338	-70 2.8	175 6.4	7339.3	10.2	45	66924.
15	2	1968	0.0	2349	-70 1.5	175 10.2	7341.2	10.3	1	66920.
16	2	1968	0.0	0 0	-69 59.6	175 10.3	7343.1	9.8	45	66921.
16	2	1968	0.0	0 8	-69 58.7	175 13.0	7344.4	5.3	49	66918.
16	2	1968	0.0	018	-69 58.1	175 14.9	7345.2	1.1	172	66916.
16	2	1968	0.0	1 6	-69 59.0	175 15.3	7346.1	11.8	95	66915.
16	2	1968	0.0	124	-69 59.3	175 25.6	7349.7	10.4	60	66902.
16	2	1968	0.0	2 9	-69 55.5	175 45.5	7357.5	4.6	67	66878.
16	2	1968	0.0	215	-69 55.3	175 46.7	7358.0	11.1	96	66876.
16	2	1968	0.0	3 0	-69 56.1	176 10.9	7366.3	10.5	60	66845.
16	2	1968	0.0	310	-69 55.3	176 15.3	7368.1	10.9	51	66840.
16	2	1968	0.0	330	-69 53.0	176 23.5	7371.7	10.7	87	66830.
16	2	1968	0.0	345	-69 52.8	176 31.3	7374.4	9.1	87	66819.
16	2	1968	0.0	350	-69 52.8	176 33.5	7375.1	11.8	357	66817.
16	2	1968	0.0	415	-69 47.9	176 32.8	7380.0	10.5	360	66819.
16	2	1968	0.0	446	-69 42.4	176 32.7	7385.5	9.6	359	66820.
16	2	1968	0.0	454	-69 41.1	176 32.7	7386.8	9.1	352	66820.
16	2	1968	0.0	456	-69 40.8	176 32.5	7387.1	9.6	344	66820.
16	2	1968	0.0	5 8	-69 39.0	176 31.0	7389.0	11.3	10	66822.
16	2	1968	0.0	512	-69 38.3	176 31.4	7389.8	9.0	350	66822.
16	2	1968	0.0	6 0	-69 31.2	176 27.7	7396.9	8.0	348	66828.
16	2	1968	0.0	742	-69 17.8	176 19.5	7410.6	7.8	351	66838.
16	2	1968	0.0	830	-69 11.7	176 16.8	7416.8	8.3	360	66841.
16	2	1968	0.0	12 0	-68 42.7	176 16.5	7445.8	10.3	0	66833.
16	2	1968	0.0	1545	-68 4.1	176 17.4	7484.4	6.0	359	66806.
16	2	1968	0.0	16 6	-68 2.0	176 17.2	7486.5	0.5	303	66804.
16	2	1968	0.0	1646	-68 1.8	176 16.4	7486.9	0.4	19	66805.
16	2	1968	0.0	2012	-68 0.5	176 17.5	7488.2	0.6	130	66803.
16	2	1968	0.0	2145	-68 1.1	176 19.4	7489.1	4.1	265	66801.
16	2	1968	0.0	2334	-68 1.8	175 59.7	7496.5	3.1	294	66830.
17	2	1968	0.0	015	-68 1.0	175 54.6	7498.6	2.2	54	66837.
17	2	1968	0.0	030	-68 0.6	175 55.8	7499.2	6.2	19	66834.
17	2	1968	0.0	043	-67 59.4	175 56.9	7500.5	6.4	18	66832.
17	2	1968	0.0	124	-67 55.2	176 0.5	7504.9	5.0	5	66823.
17	2	1968	0.0	145	-67 53.1	176 1.1	7507.0	10.8	4	66820.
17	2	1968	0.0	3 8	-67 38.2	176 3.9	7521.9	9.9	3	66801.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
17	2	1968	0.0	4 0	-67 29.7	176 5.3	7530.4	9.2	3	66789.
17	2	1968	0.0	648	-67 4.1	176 9.3	7556.1	8.9	7	66749.
17	2	1968	0.0	750	-66 55.0	176 12.2	7565.2	4.7	10	66731.
17	2	1968	0.0	8 0	-66 54.3	176 12.5	7566.0	2.5	346	66729.
17	2	1968	0.0	9 0	-66 51.9	176 11.0	7568.5	0.6	103	66728.
17	2	1968	0.0	11 0	-66 52.1	176 14.1	7569.7	5.6	9	66723.
17	2	1968	0.0	1148	-66 47.8	176 15.9	7574.1	11.0	6	66714.
17	2	1968	0.0	1215	-66 42.8	176 17.2	7579.1	6.0	136	66703.
17	2	1968	0.0	1250	-66 45.4	176 23.3	7582.6	7.7	7	66698.
17	2	1968	0.0	13 0	-66 44.1	176 23.7	7583.9	6.8	5	66695.
17	2	1968	0.0	1320	-66 41.8	176 24.2	7586.1	6.9	5	66691.
17	2	1968	0.0	1530	-66 26.9	176 27.3	7601.1	9.0	4	66659.
17	2	1968	0.0	1947	-65 48.3	176 33.2	7639.8	3.6	9	66571.
17	2	1968	0.0	20 0	-65 47.6	176 33.5	7640.6	0.6	103	66569.
17	2	1968	0.0	2248	-65 47.9	176 37.6	7642.3	0.8	238	66563.
17	2	1968	0.0	2330	-65 48.2	176 36.4	7642.9	1.3	226	66566.
18	2	1968	0.0	116	-65 49.9	176 32.2	7645.2	1.7	202	66576.
18	2	1968	0.0	330	-65 53.5	176 28.7	7649.1	4.4	356	66590.
18	2	1968	0.0	342	-65 52.6	176 28.5	7650.0	8.9	359	66589.
18	2	1968	0.0	4 8	-65 48.7	176 28.4	7653.8	11.2	3	66580.
18	2	1968	0.0	5 8	-65 37.5	176 29.8	7665.0	10.8	3	66553.
18	2	1968	0.0	530	-65 33.6	176 30.3	7669.0	10.1	3	66543.
18	2	1968	0.0	815	-65 5.8	176 34.1	7696.8	9.8	180	66467.
18	2	1968	0.0	836	-65 9.2	176 34.1	7700.3	5.8	179	66476.
18	2	1968	0.0	844	-65 10.0	176 34.1	7701.0	7.2	182	66478.
18	2	1968	0.0	850	-65 10.7	176 34.1	7701.8	5.0	183	66480.
18	2	1968	0.0	925	-65 13.6	176 33.7	7704.7	7.5	358	66488.
18	2	1968	0.0	936	-65 12.2	176 33.6	7706.0	1.2	193	66485.
18	2	1968	0.0	954	-65 12.6	176 33.4	7706.4	0.1	308	66486.
18	2	1968	0.0	1230	-65 12.4	176 32.7	7706.7	1.7	338	66487.
18	2	1968	0.0	13 0	-65 11.6	176 31.9	7707.6	0.1	308	66486.
18	2	1968	0.0	1612	-65 11.3	176 31.1	7708.0	3.1	315	66487.
18	2	1968	0.0	1620	-65 11.0	176 30.4	7708.5	3.1	315	66487.
18	2	1968	0.0	1652	-65 9.8	176 27.6	7710.1	0.1	306	66489.
18	2	1968	0.0	1654	-65 9.8	176 27.6	7710.1	10.7	2	66489.
18	2	1968	0.0	1712	-65 6.6	176 27.9	7713.4	6.1	2	66480.
18	2	1968	0.0	1722	-65 5.6	176 28.0	7714.4	9.7	2	66477.
18	2	1968	0.0	1912	-64 47.8	176 29.7	7732.2	10.2	6	66426.
18	2	1968	0.0	1930	-64 44.7	176 30.4	7735.3	10.2	6	66417.
18	2	1968	0.0	2130	-64 24.5	176 35.1	7755.6	3.0	12	66350.
18	2	1968	0.0	2250	-64 20.6	176 37.1	7759.6	6.5	7	66335.
18	2	1968	0.0	23 0	-64 19.5	176 37.4	7760.7	0.7	47	66331.
19	2	1968	0.0	220	-64 18.0	176 41.3	7763.0	4.5	324	66319.
19	2	1968	0.0	520	-64 7.0	176 22.7	7776.6	6.5	9	66319.
19	2	1968	0.0	530	-64 5.9	176 23.1	7777.7	8.1	8	66315.
19	2	1968	0.0	7 0	-63 54.0	176 27.0	7789.7	4.5	11	66270.
19	2	1968	0.0	930	-63 42.8	176 31.8	7801.1	5.6	10	66225.
19	2	1968	0.0	11 6	-63 34.0	176 35.1	7810.0	0.7	47	66189.
19	2	1968	0.0	1122	-63 33.9	176 35.4	7810.2	5.0	10	66188.
19	2	1968	0.0	1330	-63 23.3	176 39.6	7820.9	6.1	9	66143.
19	2	1968	0.0	14 0	-63 20.3	176 40.7	7824.0	7.2	8	66131.
19	2	1968	0.0	1615	-63 4.3	176 45.9	7840.2	6.5	9	66063.
19	2	1968	0.0	1630	-63 2.7	176 46.5	7841.8	0.7	49	66056.
19	2	1968	0.0	1744	-63 2.1	176 47.9	7842.7	0.3	65	66051.
19	2	1968	0.0	18 2	-63 2.1	176 48.1	7842.8	2.4	173	66051.
19	2	1968	0.0	19 0	-63 4.3	176 48.7	7845.1	8.2	7	66058.
19	2	1968	0.0	1938	-62 59.2	176 50.1	7850.3	10.2	7	66036.
19	2	1968	0.0	2130	-62 40.2	176 54.9	7869.4	10.3	6	65955.
19	2	1968	0.0	2330	-62 19.8	176 59.9	7889.9	9.5	*	65864.
20	2	1968	0.0	017	-62 12.4	177 1.7	7897.3	5.5	8	65830.
20	2	1968	0.0	036	-62 10.7	177 2.3	7899.1	0.3	65	65822.
20	2	1968	0.0	112	-62 10.6	177 2.6	7899.3	5.3	8	65821.
20	2	1968	0.0	140	-62 8.1	177 3.4	7901.7	7.1	7	65809.
20	2	1968	0.0	2 0	-62 5.8	177 4.0	7904.1	5.6	8	65798.
20	2	1968	0.0	210	-62 4.9	177 4.3	7905.0	10.4	6	65794.
20	2	1968	0.0	440	-61 39.0	177 10.4	7931.0	7.9	183	65671.
20	2	1968	0.0	630	-61 53.5	177 8.9	7945.5	7.9	183	65737.
20	2	1968	0.0	830	-62 9.4	177 7.2	7961.4	9.0	183	65807.

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DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
20	2	1968	0.0	1030	-62 27.5	177 5.1	7979.5	9.4	183	65885.
20	2	1968	0.0	1230	-62 46.2	177 2.8	7998.3	10.3	183	65962.
20	2	1968	0.0	1430	-63 6.8	177 0.2	8018.0	8.3	183	66045.
20	2	1968	0.0	1630	-63 23.4	176 58.4	8035.6	10.5	183	66108.
20	2	1968	0.0	1656	-63 28.0	176 57.8	8040.1	11.2	181	66125.
20	2	1968	0.0	1734	-63 35.1	176 57.5	8047.3	11.1	179	66151.
20	2	1968	0.0	1830	-63 45.5	176 58.0	8057.6	11.9	179	66185.
20	2	1968	0.0	1922	-63 55.8	176 58.4	8067.9	11.8	184	66218.
20	2	1968	0.0	2030	-64 9.2	176 56.3	8081.3	12.9	184	66265.
20	2	1968	0.0	2050	-64 13.4	176 55.6	8085.6	5.3	183	66279.
20	2	1968	0.0	21 0	-64 14.5	176 55.5	8086.7	0.4	143	66283.
20	2	1968	0.0	2320	-64 15.1	176 56.7	8087.5	9.0	4	66283.
21	2	1968	0.0	0 0	-64 9.1	176 57.8	8093.5	10.0	4	66262.
21	2	1968	0.0	135	-63 53.4	177 0.4	8109.3	3.2	9	66207.
21	2	1968	0.0	142	-63 53.1	177 0.6	8109.7	0.4	143	66205.
21	2	1968	0.0	324	-63 53.5	177 1.4	8110.3	9.7	6	66205.
21	2	1968	0.0	524	-63 34.2	177 6.3	8129.7	0.4	143	66131.
21	2	1968	0.0	8 2	-63 34.9	177 7.6	8130.7	5.2	7	66131.
21	2	1968	0.0	8 6	-63 34.6	177 7.7	8131.0	6.3	3	66130.
21	2	1968	0.0	935	-63 25.2	177 8.7	8140.4	7.6	3	66095.
21	2	1968	0.0	1030	-63 18.3	177 9.6	8147.3	5.8	3	66069.
21	2	1968	0.0	1118	-63 13.6	177 10.0	8152.0	0.9	349	66051.
21	2	1968	0.0	1226	-63 12.7	177 9.6	8153.0	0.4	26	66048.
21	2	1968	0.0	1318	-63 12.3	177 10.0	8153.4	7.1	6	66046.
21	2	1968	0.0	15 0	-63 0.4	177 12.9	8165.4	7.1	6	65997.
21	2	1968	0.0	16 4	-62 52.9	177 14.7	8172.9	6.9	8	65965.
21	2	1968	0.0	1630	-62 49.9	177 15.6	8175.9	7.0	8	65952.
21	2	1968	0.0	1644	-62 48.3	177 16.1	8177.6	7.4	359	65945.
21	2	1968	0.0	1718	-62 44.1	177 16.0	8181.8	1.0	315	65929.
21	2	1968	0.0	1830	-62 43.3	177 14.2	8182.9	0.5	354	65929.
21	2	1968	0.0	2020	-62 42.4	177 14.0	8183.6	9.3	4	65926.
21	2	1968	0.0	2248	-62 19.5	177 17.8	8206.8	0.5	354	65827.
21	2	1968	0.0	2324	-62 19.2	177 17.7	8207.0	0.6	18	65826.
22	2	1968	0.0	048	-62 18.5	177 18.3	8207.8	8.7	6	65822.
22	2	1968	0.0	1 5	-62 16.0	177 18.8	8210.3	8.7	6	65811.
22	2	1968	0.0	3 0	-61 59.4	177 22.4	8227.0	10.3	6	65734.
22	2	1968	0.0	5 5	-61 38.0	177 26.9	8248.5	5.4	2	65633.
22	2	1968	0.0	6 0	-61 33.0	177 27.3	8253.5	10.6	1	65610.
22	2	1968	0.0	6 6	-61 32.0	177 27.3	8254.5	0.6	18	65606.
22	2	1968	0.0	924	-61 30.2	177 28.5	8256.4	10.2	1	65595.
22	2	1968	0.0	952	-61 25.4	177 28.7	8261.2	10.8	358	65573.
22	2	1968	0.0	1134	-61 7.1	177 27.5	8279.5	11.0	0	65493.
22	2	1968	0.0	1320	-60 47.8	177 27.6	8298.8	6.6	359	65401.
22	2	1968	0.0	1330	-60 46.7	177 27.5	8299.9	0.7	350	65396.
22	2	1968	0.0	1514	-60 45.5	177 27.1	8301.1	0.7	59	65392.
22	2	1968	0.0	1548	-60 45.3	177 27.9	8301.5	6.4	6	65389.
22	2	1968	0.0	1554	-60 44.7	177 28.0	8302.1	7.6	6	65386.
22	2	1968	0.0	1610	-60 42.7	177 28.4	8304.2	11.2	4	65375.
22	2	1968	0.0	1640	-60 37.1	177 29.2	8309.8	10.0	4	65347.
22	2	1968	0.0	1645	-60 36.3	177 29.3	8310.6	12.0	4	65343.
22	2	1968	0.0	1658	-60 33.7	177 29.6	8313.2	11.4	2	65329.
22	2	1968	0.0	1928	-60 5.2	177 31.2	8341.7	10.4	2	65185.
22	2	1968	0.0	2036	-59 53.4	177 32.0	8353.5	0.3	84	65123.
22	2	1968	0.0	2350	-59 53.3	177 34.1	8354.5	1.1	9	65118.
23	2	1968	0.0	0 6	-59 53.0	177 34.2	8354.8	6.7	2	65116.
23	2	1968	0.0	020	-59 51.4	177 34.3	8356.4	10.7	1	65108.
23	2	1968	0.0	3 0	-59 23.0	177 35.2	8384.9	11.3	1	64957.
23	2	1968	0.0	512	-58 58.1	177 35.9	8409.7	11.3	2	64821.
23	2	1968	0.0	515	-58 57.5	177 36.0	8410.3	11.8	353	64818.
23	2	1968	0.0	530	-58 54.6	177 35.3	8413.3	7.9	354	64804.
23	2	1968	0.0	630	-58 46.7	177 33.7	8421.2	8.9	359	64764.
23	2	1968	0.0	930	-58 20.2	177 32.7	8447.7	8.4	351	64617.
23	2	1968	0.0	1036	-58 11.1	177 30.1	8456.9	8.2	347	64572.
23	2	1968	0.0	1230	-57 56.0	177 23.4	8472.4	8.0	347	64501.
23	2	1968	0.0	1424	-57 41.1	177 16.9	8487.7	7.8	346	64429.
23	2	1968	0.0	1530	-57 32.8	177 13.0	8496.3	7.8	346	64390.
23	2	1968	0.0	1652	-57 22.5	177 8.2	8506.9	6.7	342	64340.
23	2	1968	0.0	1710	-57 20.6	177 7.0	8508.9	6.3	342	64332.

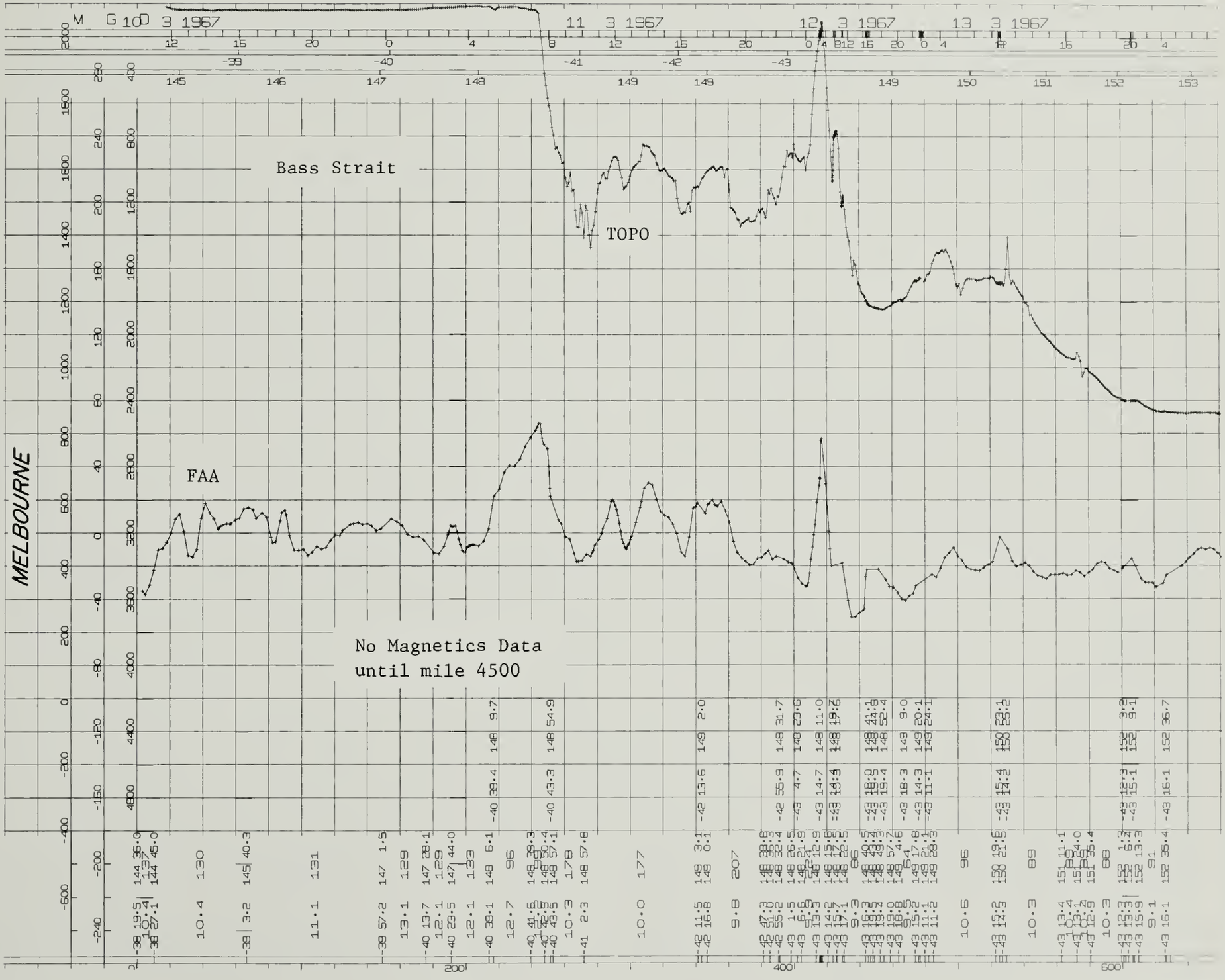
ELTANIN CRUISE 32

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
23	2	1968	0.0	1717	-57 19.9	177 6.6	8509.6	5.9	158	64329.
23	2	1968	0.0	1748	-57 22.8	177 8.8	8512.7	0.4	25	64340.
23	2	1968	0.0	2242	-57 21.2	177 10.2	8514.4	8.7	9	64327.
24	2	1968	0.0	0 0	-57 10.0	177 13.3	8525.7	8.8	9	64253.
24	2	1968	0.0	010	-57 8.6	177 13.7	8527.1	9.1	1	64243.
24	2	1968	0.0	040	-57 4.0	177 13.9	8531.7	5.1	2	64215.
24	2	1968	0.0	050	-57 3.2	177 13.9	8532.6	8.8	1	64210.
24	2	1968	0.0	226	-56 49.1	177 14.4	8546.7	9.2	3	64123.
24	2	1968	0.0	3 0	-56 43.9	177 14.9	8551.9	9.2	3	64090.
24	2	1968	0.0	6 5	-56 15.6	177 17.7	8580.2	9.2	3	63907.
24	2	1968	0.0	624	-56 12.7	177 18.0	8583.1	0.9	37	63888.
24	2	1968	0.0	930	-56 10.6	177 20.9	8585.8	11.6	10	63867.
24	2	1968	0.0	1030	-55 59.1	177 24.5	8597.4	12.1	10	63785.
24	2	1968	0.0	13 0	-55 29.3	177 33.7	8627.7	12.1	10	63570.
24	2	1968	0.0	1530	-54 59.4	177 42.9	8658.0	12.4	10	63349.
24	2	1968	0.0	17 2	-54 40.7	177 48.5	8677.0	12.8	13	63210.
24	2	1968	0.0	1817	-54 25.2	177 54.8	8692.9	9.9	15	63088.
24	2	1968	0.0	1826	-54 23.8	177 55.5	8694.4	12.7	13	63077.
24	2	1968	0.0	1940	-54 8.6	178 1.7	8710.0	12.4	10	62956.
24	2	1968	0.0	21 0	-53 52.3	178 6.4	8726.5	7.6	9	62831.
24	2	1968	0.0	2136	-53 47.8	178 7.6	8731.1	1.0	31	62797.
25	2	1968	0.0	036	-53 45.3	178 10.2	8734.0	5.9	11	62773.
25	2	1968	0.0	048	-53 44.1	178 10.5	8735.2	11.8	9	62764.
25	2	1968	0.0	233	-53 23.8	178 15.9	8755.7	8.7	10	62607.
25	2	1968	0.0	330	-53 15.7	178 18.1	8764.0	11.2	9	62543.
25	2	1968	0.0	437	-53 3.3	178 21.4	8776.5	11.5	32	62447.
25	2	1968	0.0	530	-52 54.7	178 30.3	8786.7	12.5	32	62361.
25	2	1968	0.0	556	-52 50.1	178 35.1	8792.1	11.4	9	62314.
25	2	1968	0.0	9 0	-52 15.4	178 43.9	8827.1	11.6	9	62040.
25	2	1968	0.0	1030	-51 58.2	178 48.4	8844.6	12.1	10	61901.
25	2	1968	0.0	12 0	-51 40.4	178 53.6	8862.7	12.2	10	61756.
25	2	1968	0.0	1428	-51 10.9	179 2.1	8892.7	12.0	9	61512.
25	2	1968	0.0	15 0	-51 4.5	179 3.7	8899.1	12.4	9	61460.
25	2	1968	0.0	17 2	-50 39.7	179 9.8	8924.3	12.5	6	61256.
25	2	1968	0.0	18 0	-50 27.6	179 11.9	8936.4	11.6	6	61159.
25	2	1968	0.0	1830	-50 21.9	179 12.8	8942.2	12.8	360	61112.
25	2	1968	0.0	1848	-50 18.0	179 12.8	8946.0	12.5	7	61084.
25	2	1968	0.0	20 0	-50 3.2	179 15.7	8961.0	11.9	335	60962.
25	2	1968	0.0	21 5	-49 51.5	179 7.3	8973.8	9.9	298	60899.
25	2	1968	0.0	2215	-49 46.1	178 51.6	8985.3	9.0	299	60905.
25	2	1968	0.0	2254	-49 43.2	178 43.7	8991.2	1.9	59	60907.
25	2	1968	0.0	2310	-49 43.0	178 44.4	8991.7	3.3	22	60904.
25	2	1968	0.0	2330	-49 41.9	178 45.0	8992.7	1.9	59	60894.
26	2	1968	0.0	1 3	-49 40.4	178 48.8	8995.6	2.6	190	60871.
26	2	1968	0.0	134	-49 41.8	178 48.4	8996.9	7.2	203	60882.
26	2	1968	0.0	323	-49 53.9	178 40.5	9010.1	8.5	356	60998.
26	2	1968	0.0	340	-49 51.5	178 40.2	9012.5	7.8	353	60981.
26	2	1968	0.0	415	-49 47.0	178 39.4	9017.0	1.9	59	60949.
26	2	1968	0.0	455	-49 46.3	178 41.0	9018.2	3.3	209	60939.
26	2	1968	0.0	530	-49 48.0	178 39.6	9020.1	0.8	277	60956.
26	2	1968	0.0	710	-49 47.8	178 37.5	9021.5	1.9	58	60961.
26	2	1968	0.0	718	-49 47.7	178 37.9	9021.7	8.4	352	60959.
26	2	1968	0.0	745	-49 44.0	178 37.1	9025.5	3.2	272	60933.
26	2	1968	0.0	8 0	-49 43.9	178 35.8	9026.3	1.0	305	60937.
26	2	1968	0.0	8 5	-49 43.9	178 35.7	9026.4	1.0	305	60937.
26	2	1968	0.0	830	-49 43.6	178 35.2	9026.8	1.3	267	60937.
26	2	1968	0.0	920	-49 43.7	178 33.6	9027.8	1.9	0	60942.
26	2	1968	0.0	930	-49 43.4	178 33.6	9028.1	5.0	319	60939.
26	2	1968	0.0	956	-49 41.8	178 31.4	9030.3	11.4	349	60934.
26	2	1968	0.0	1122	-49 25.6	178 26.6	9046.7	11.8	340	60826.
26	2	1968	0.0	12 0	-49 18.6	178 22.7	9054.2	12.3	340	60784.
26	2	1968	0.0	15 0	-48 43.8	178 3.7	9091.2	12.7	340	60576.
26	2	1968	0.0	1614	-48 29.1	177 55.7	9106.8	12.6	339	60488.
26	2	1968	0.0	1758	-48 8.7	177 44.0	9128.6	12.4	339	60368.
26	2	1968	0.0	18 0	-48 8.3	177 43.8	9129.0	12.8	339	60366.
26	2	1968	0.0	21 0	-47 32.3	177 23.5	9167.5	12.8	339	60152.
26	2	1968	0.0	2228	-47 14.7	177 13.7	9186.3	12.7	340	60046.
27	2	1968	0.0	0 0	-46 56.3	177 3.9	9205.8	12.3	340	59935.

ELTANIN CRUISE 32

DAY	MON	YEAR	TZ	TIME	LATITUDE	LONGITUDE	DISTANCE	SPEED	COURSE	REGIONAL MAG
27	2	1968	0.0	3 0	-46 21.6	176 45.5	9242.8	12.6	340	59723.
27	2	1968	0.0	4 0	-46 9.8	176 39.3	9255.4	12.1	343	59650.
27	2	1968	0.0	656	-45 35.7	176 24.2	9291.0	11.9	347	59432.
27	2	1968	0.0	7 0	-45 35.0	176 24.0	9291.8	11.7	347	59427.
27	2	1968	0.0	10 0	-45 0.8	176 13.0	9326.8	11.3	347	59194.
27	2	1968	0.0	1028	-44 55.6	176 11.4	9332.1	12.0	344	59158.
27	2	1968	0.0	13 0	-44 26.5	175 59.6	9362.5	10.4	344	58966.
27	2	1968	0.0	17 0	-43 46.3	175 43.7	9404.2	7.0	345	58700.
27	2	1968	0.0	20 0	-43 26.0	175 36.0	9425.2	5.8	345	58564.
27	2	1968	0.0	2016	-43 24.5	175 35.5	9426.8	6.4	321	58553.
27	2	1968	0.0	2030	-43 23.4	175 34.2	9428.3	6.7	345	58549.
27	2	1968	0.0	2322	-43 4.9	175 27.3	9447.4	7.9	51	58424.
27	2	1968	0.0	2331	-43 4.2	175 28.5	9448.6	5.5	345	58414.
28	2	1968	0.0	0 0	-43 1.6	175 27.6	9451.2	5.6	345	58396.
28	2	1968	0.0	3 0	-42 45.4	175 21.7	9468.0	5.5	345	58286.
28	2	1968	0.0	420	-42 38.3	175 19.1	9475.3	4.8	341	58238.
28	2	1968	0.0	6 0	-42 30.7	175 15.6	9483.3	4.5	343	58189.
28	2	1968	0.0	830	-42 20.0	175 11.2	9494.6	3.1	342	58117.
28	2	1968	0.0	847	-42 19.1	175 10.8	9495.5	5.1	343	58111.
28	2	1968	0.0	942	-42 14.7	175 9.0	9500.1	5.5	335	58082.
28	2	1968	0.0	950	-42 14.0	175 8.6	9500.9	4.8	332	58078.
28	2	1968	0.0	11 0	-42 9.0	175 5.0	9506.5	8.3	332	58050.
28	2	1968	0.0	13 0	-41 54.3	174 54.6	9523.1	4.8	332	57966.
28	2	1968	0.0	1444	-41 46.9	174 49.3	9531.5	5.2	339	57924.
28	2	1968	0.0	15 0	-41 45.7	174 48.6	9532.9	0.3	314	57916.
28	2	1968	0.0	1736	-41 45.1	174 47.8	9533.7	11.5	349	57914.
28	2	1968	0.0	18 8	-41 39.1	174 46.3	9539.8	13.6	342	57871.
28	2	1968	0.0	1838	-41 32.6	174 43.5	9546.6	12.8	350	57827.
28	2	1968	0.0	19 0	-41 28.0	174 42.5	9551.2			57794.

PART B - BATHYMETRIC, GEOMAGNETIC, AND GRAVITY PROFILES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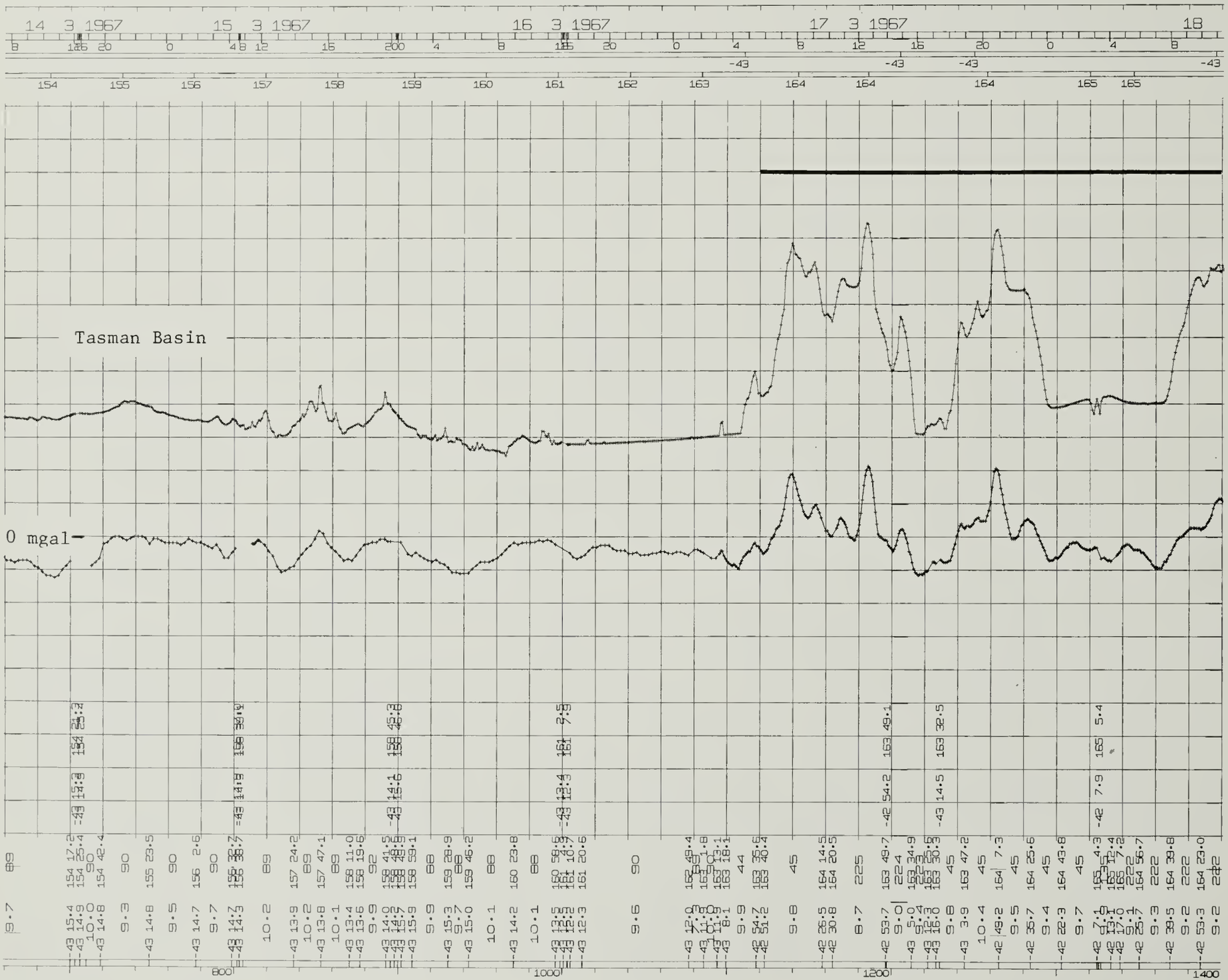
13 3 1967
Bass Strait
TOPO
FAA
MELBOURNE
No Magnetics Data
until mile 4500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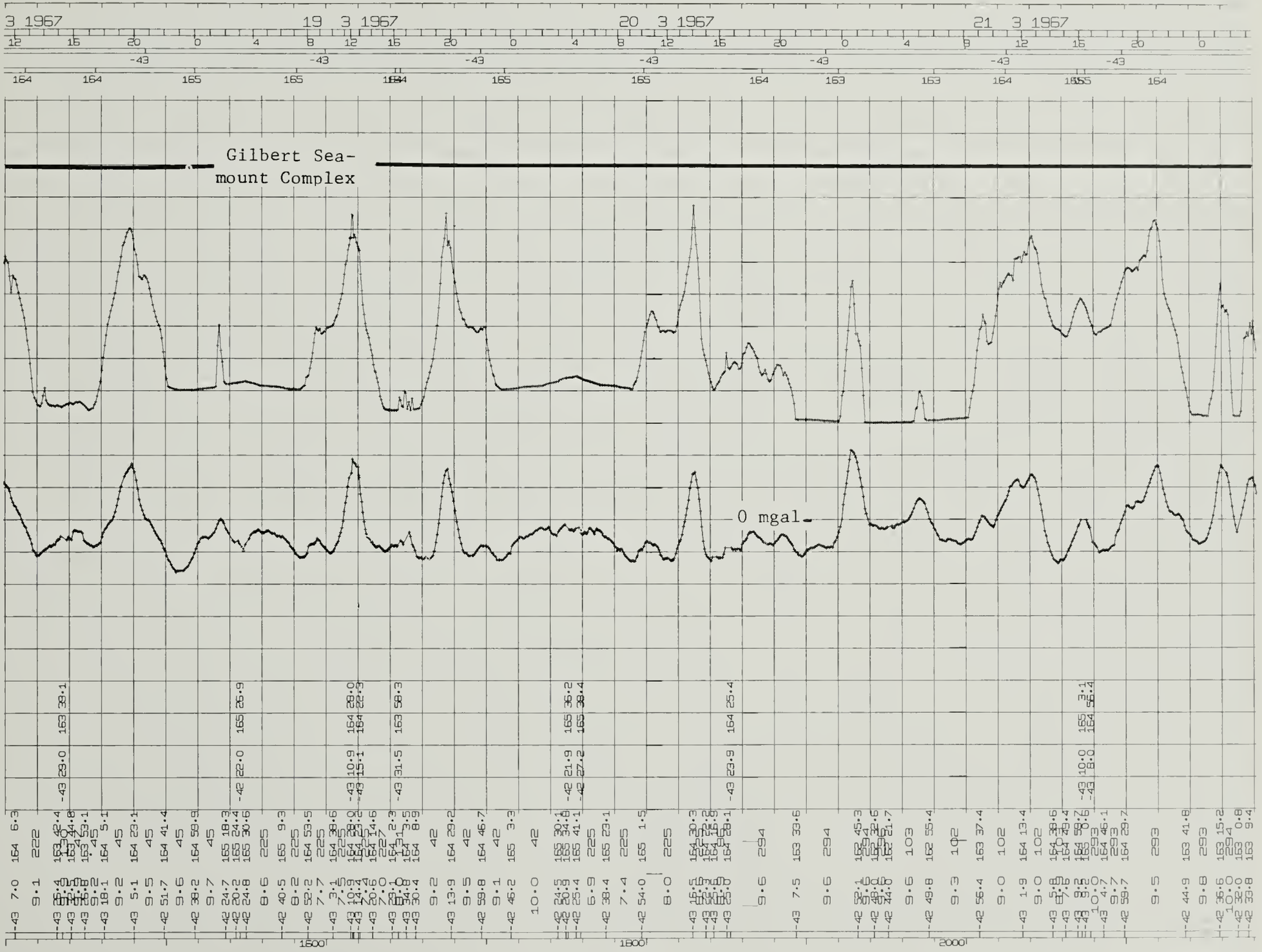
16 3 1967
17 3 1967
18
Tasman Basin
0 mgal


3 1967
19 3 1967
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Gilbert Sea-
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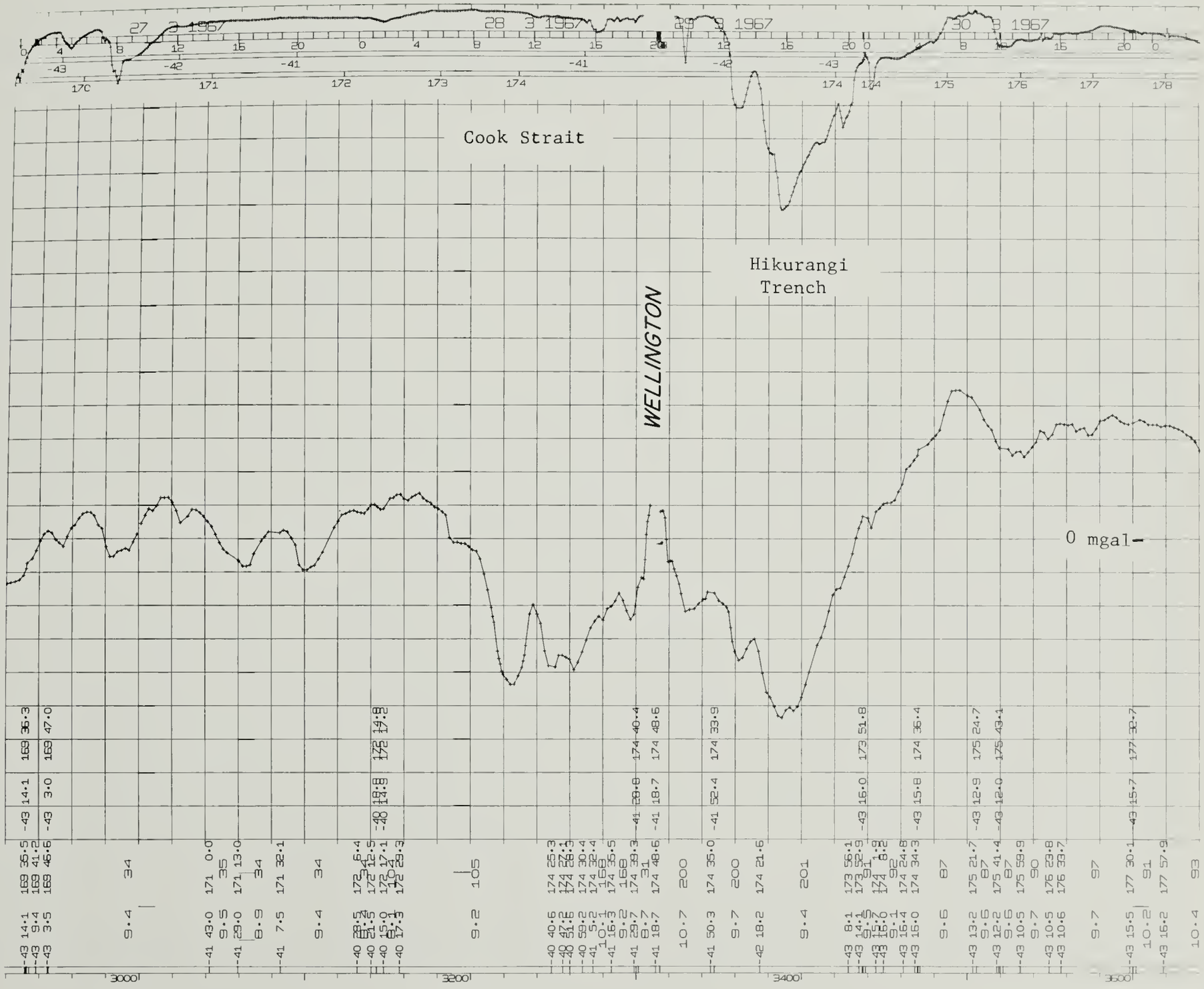
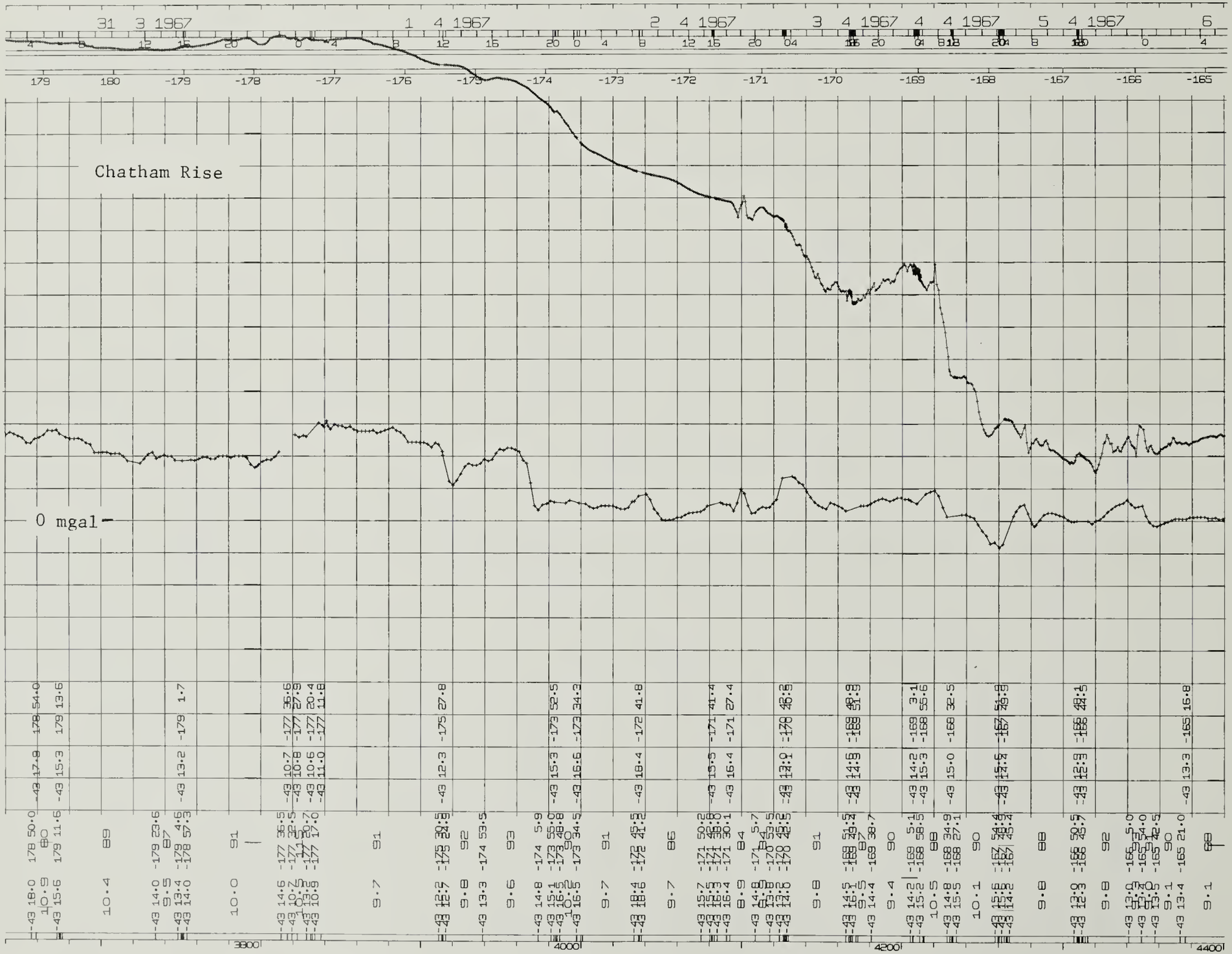
26 3 1967
Gilbert Sea-
mount Complex
Lord Howe Rise
0 mgal


27 3 1967
28 3 1967
29 3 1967
30 3 1967
Cook Strait
WELLINGTON
Hikurangi
Trench
0 mgal


31 3 1967
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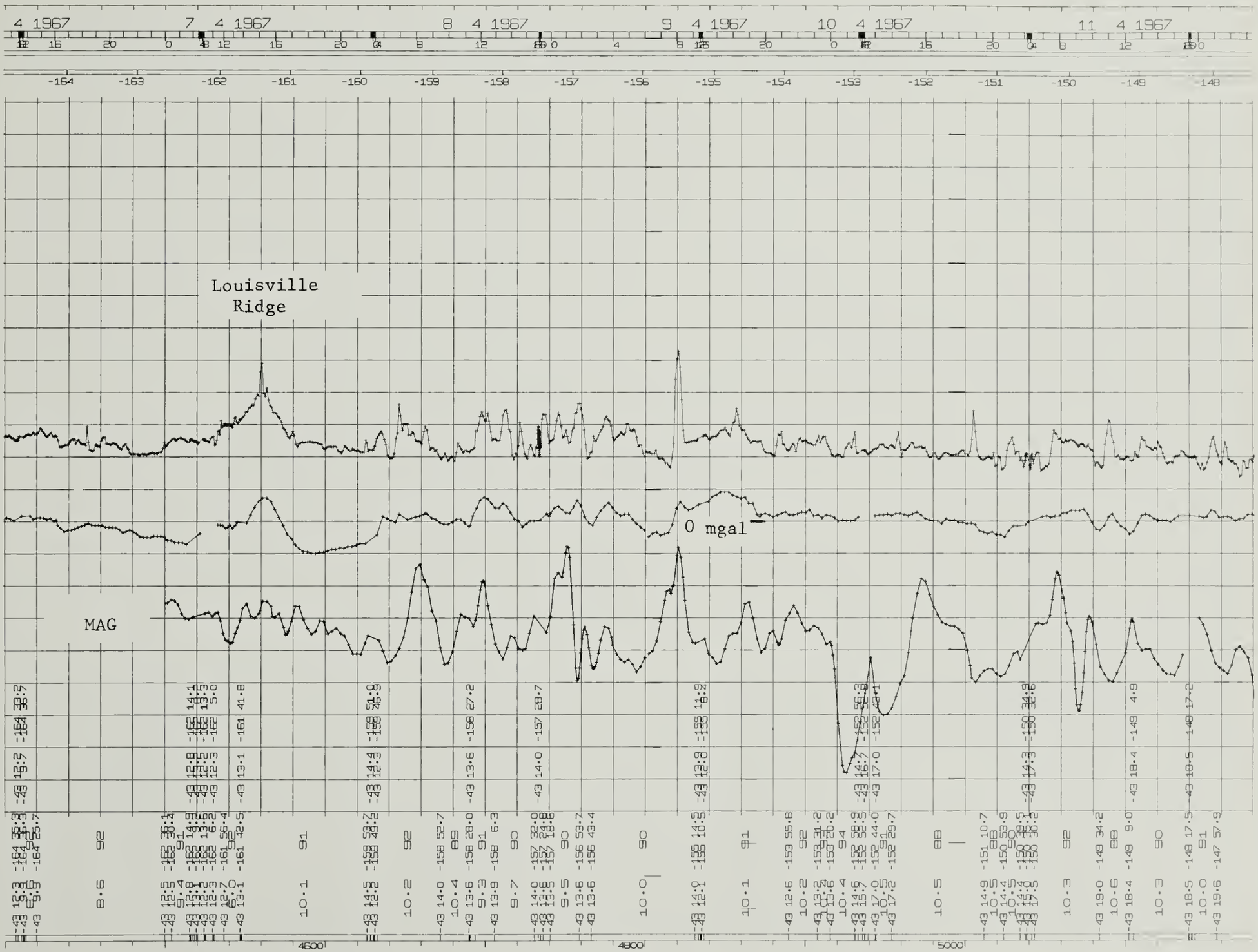
5 4 1967
6
Chatham Rise
0 mgal
3800
4000
4200
4400


4 1967
7 4 1967
8 4 1967
9 4 1967
10 4 1967
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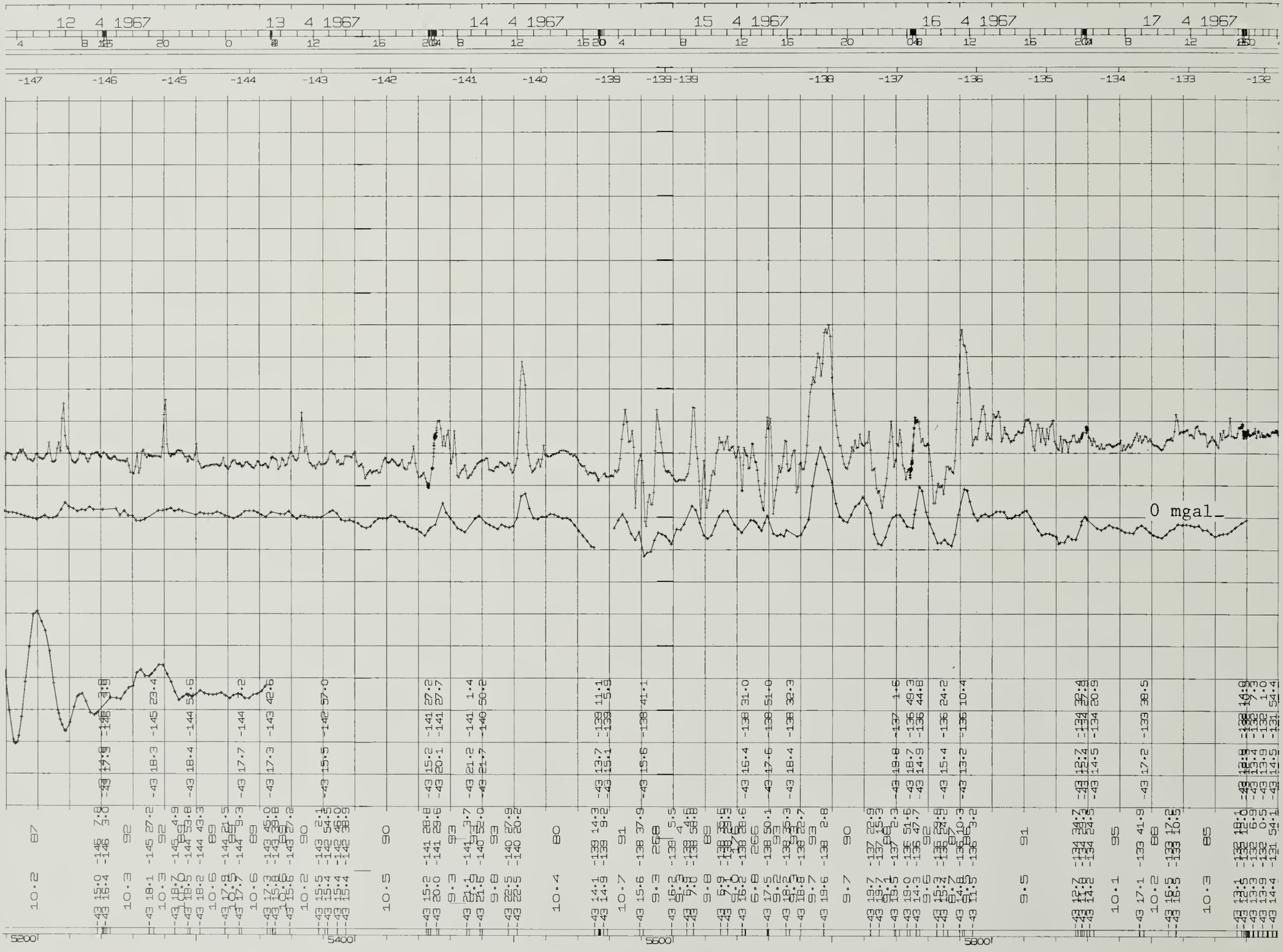
Louisville
Ridge
0 mgal
MAG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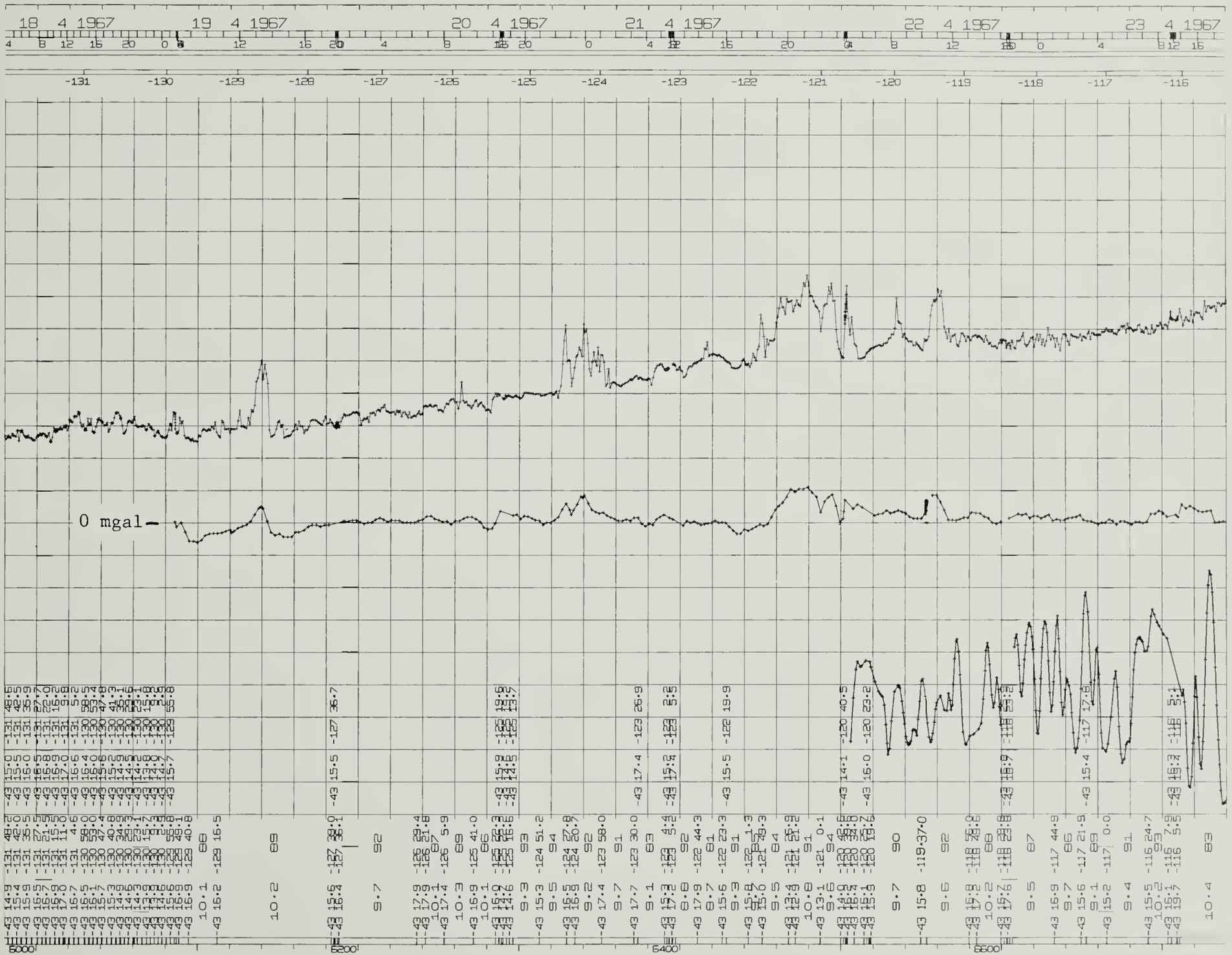
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20 4 1967
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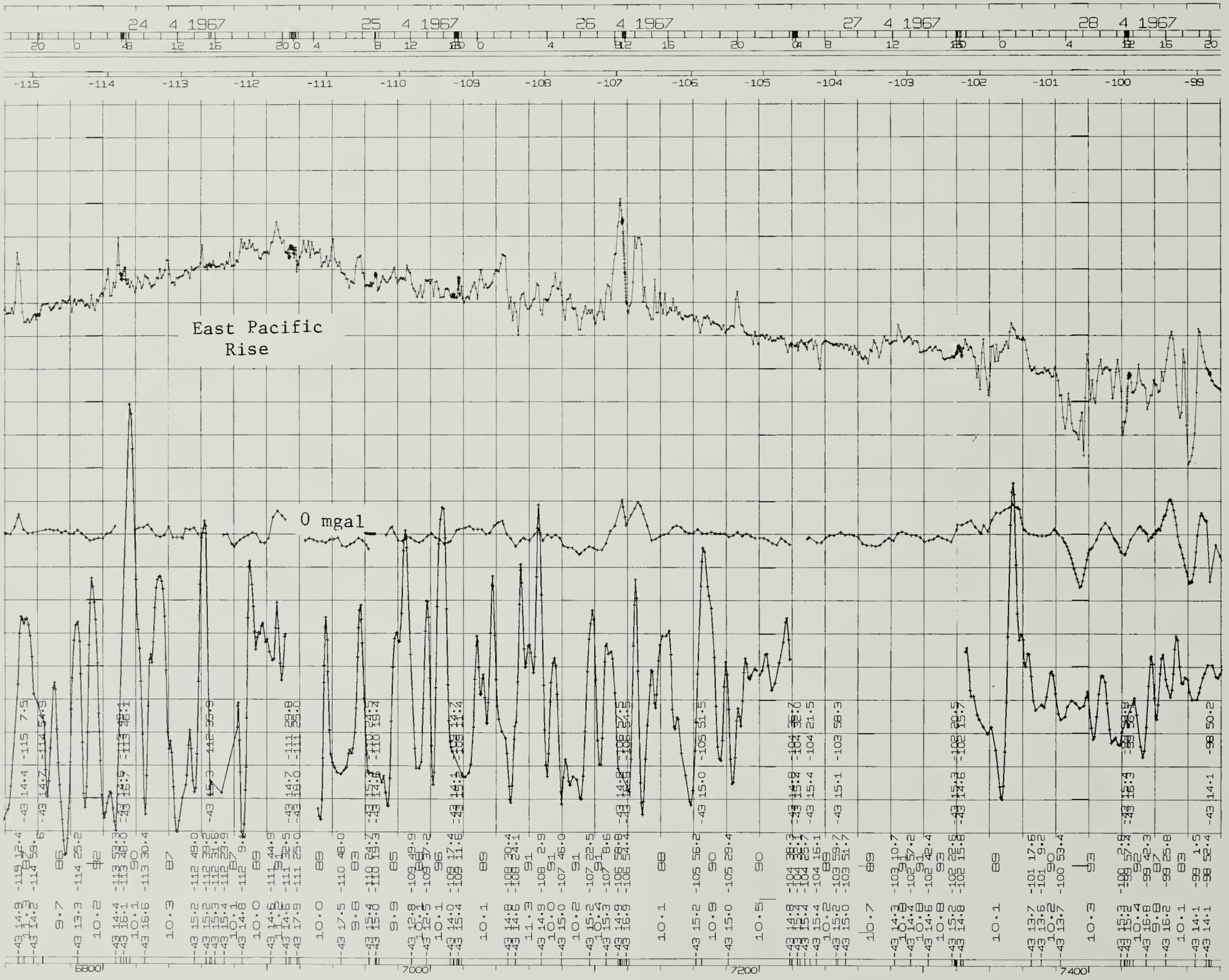
0 mgal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28 4 1967
East Pacific
Rise
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7200
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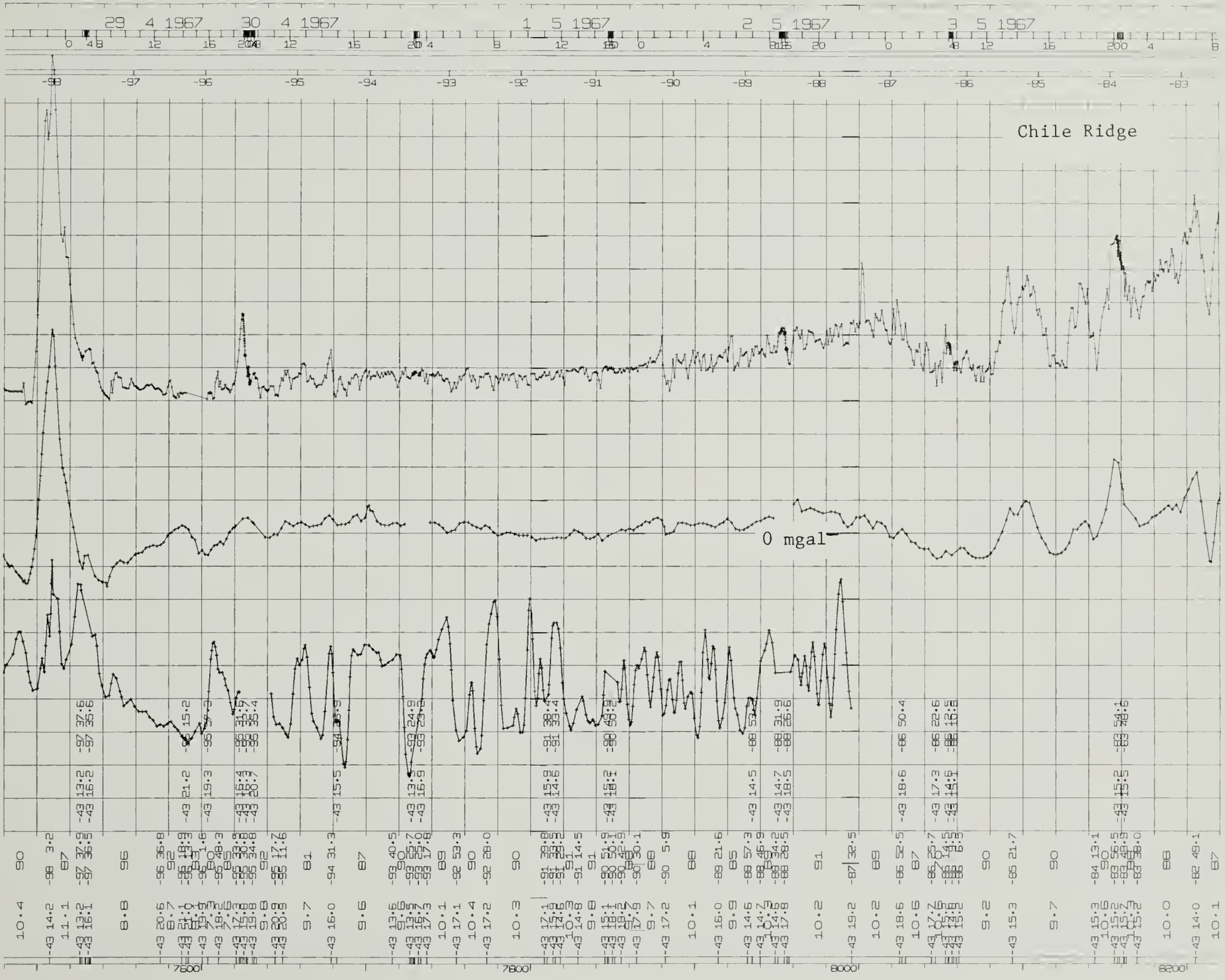
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Chile Ridge
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8000
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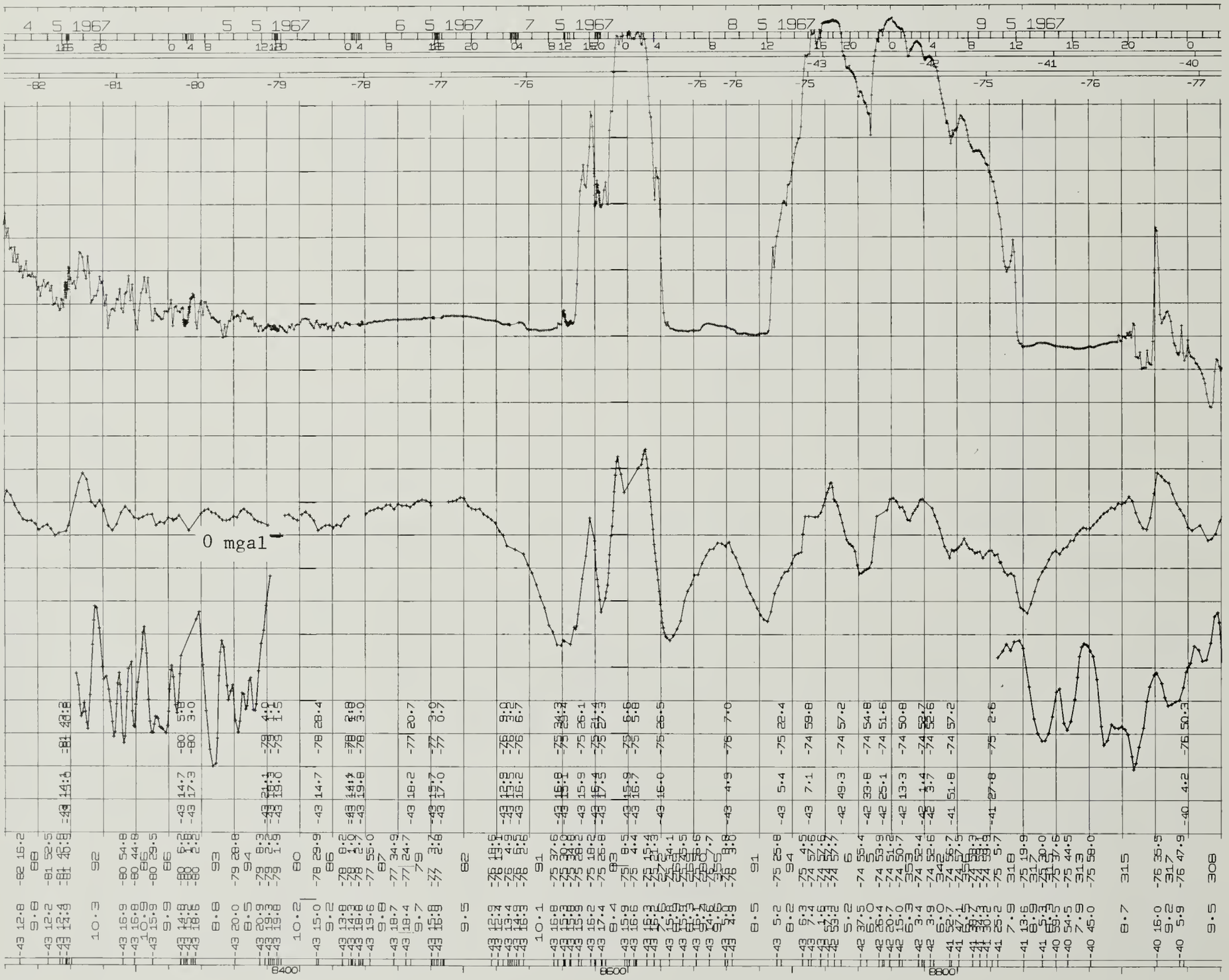
4 5 1967
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8800

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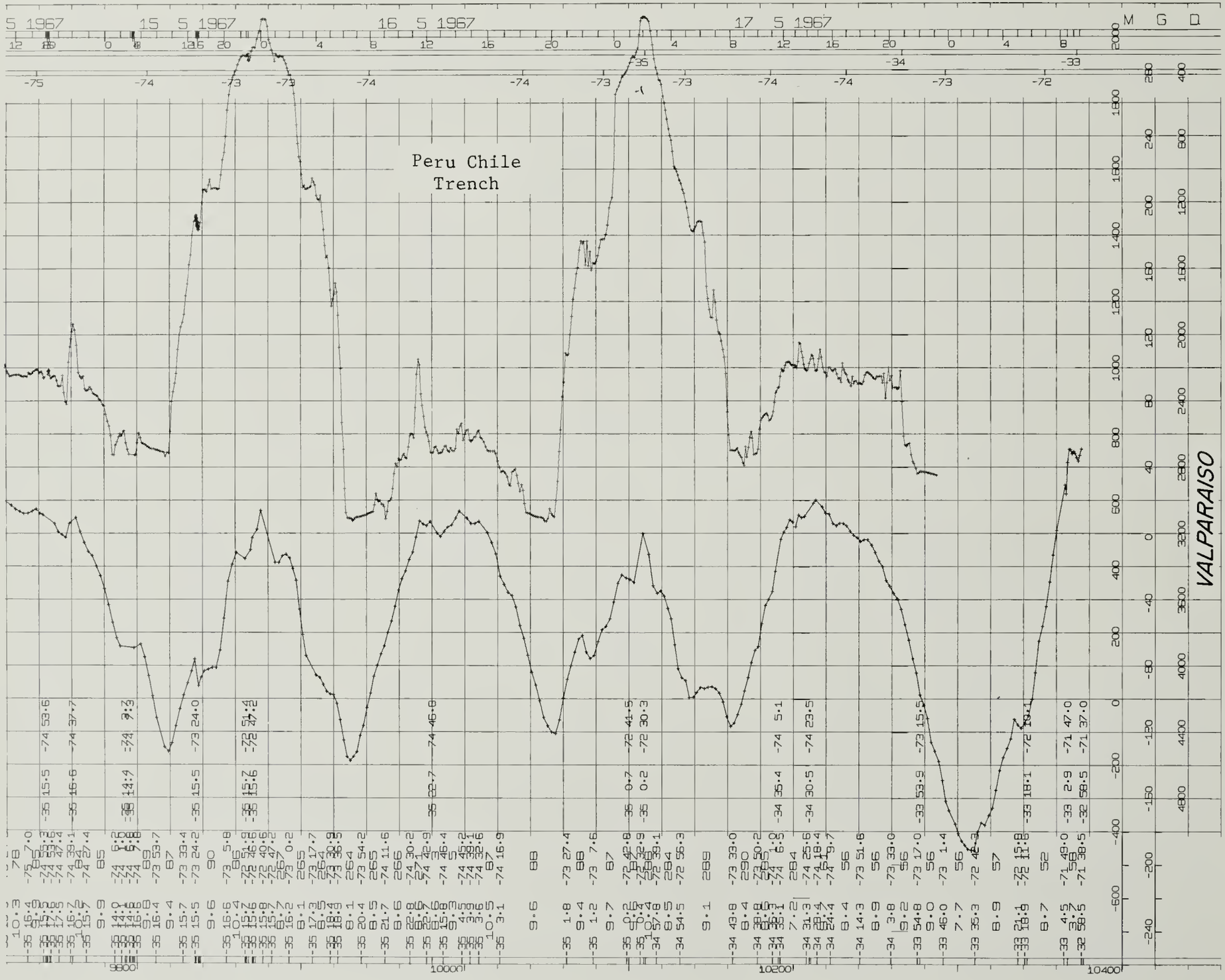
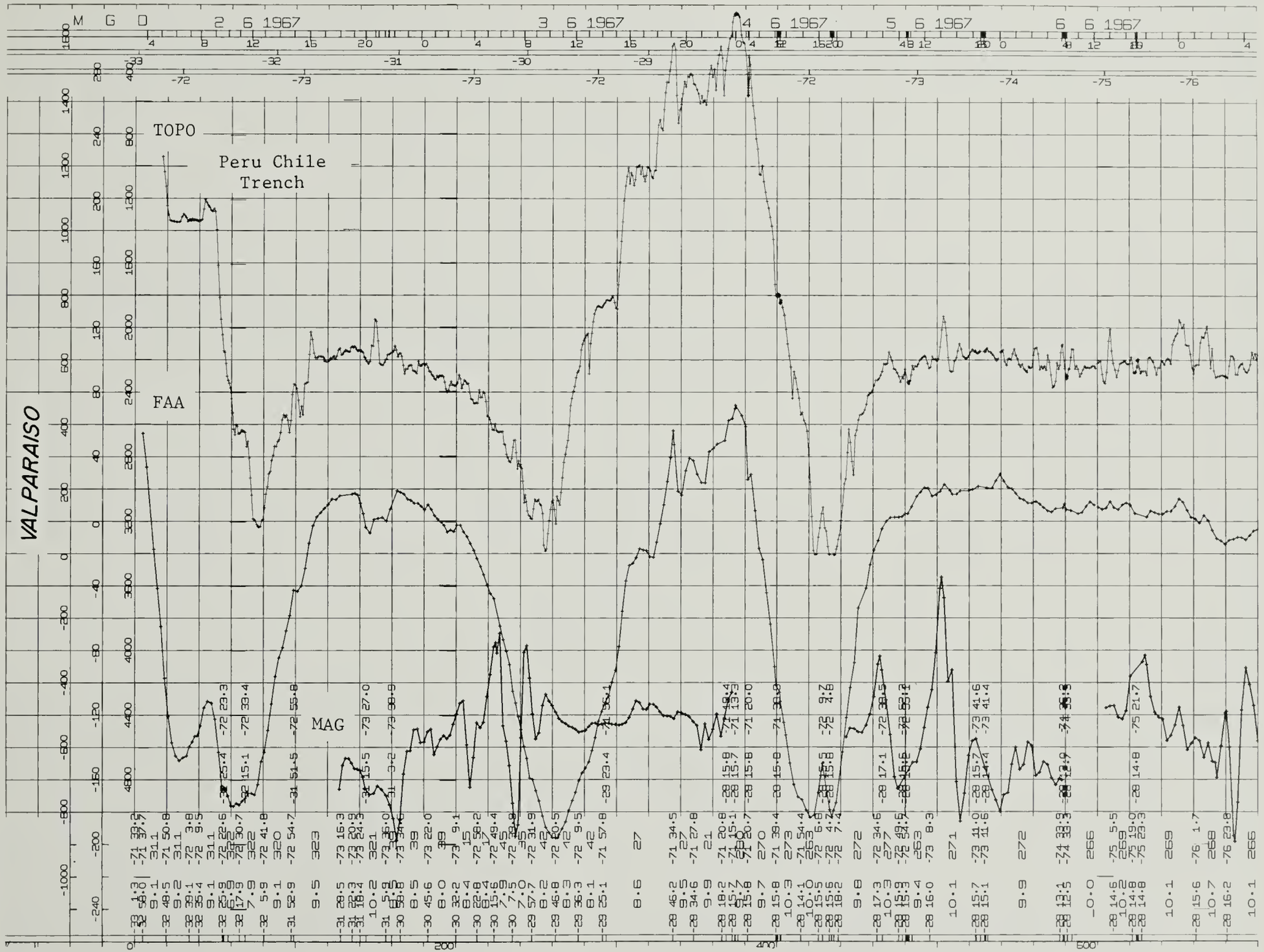
9400
9600


Peru Chile
Trench
VALPARAISO


M G D 2 6 1967
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TOPO
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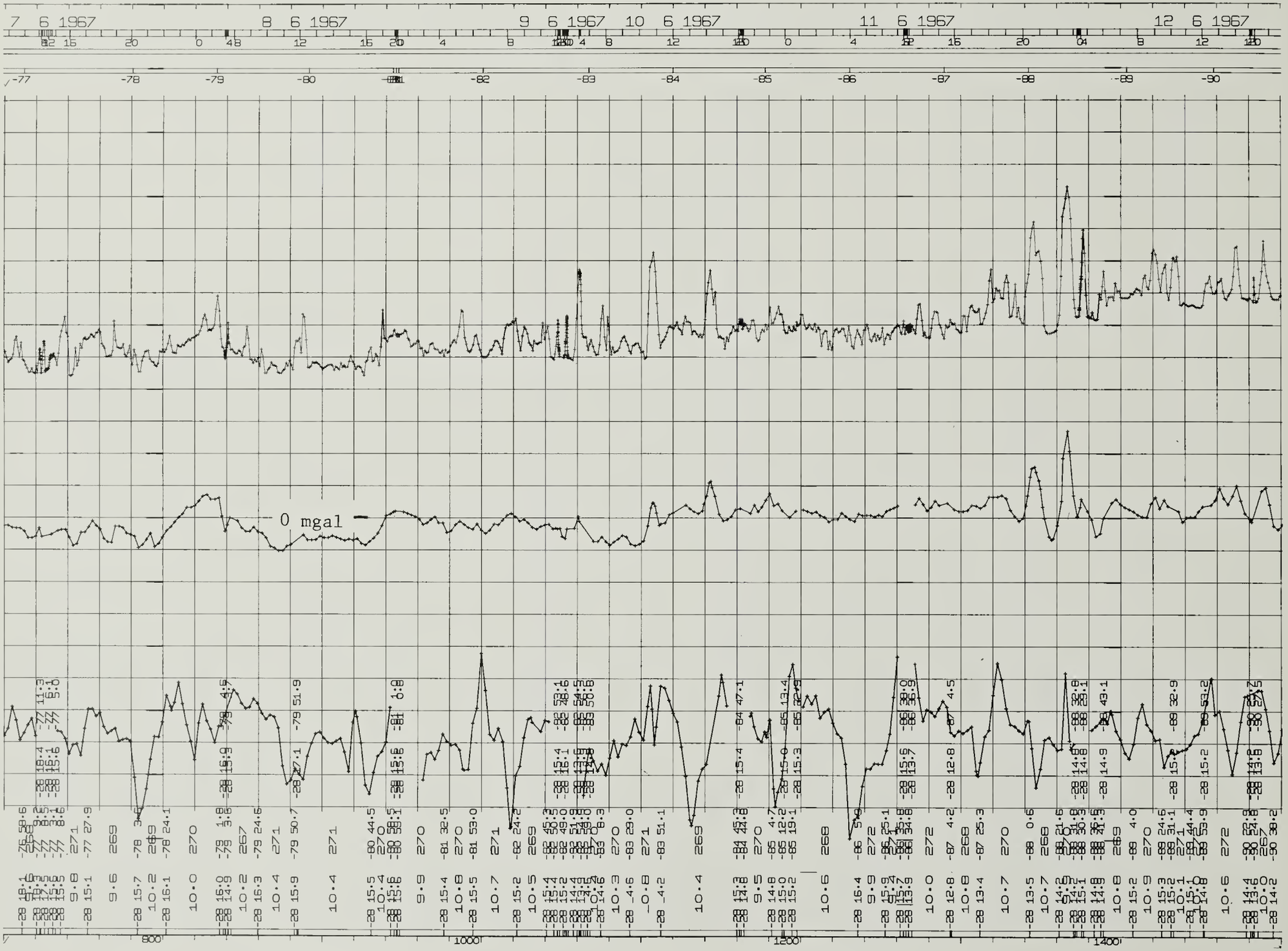
Trench
FAA
MAG
VALPARAISO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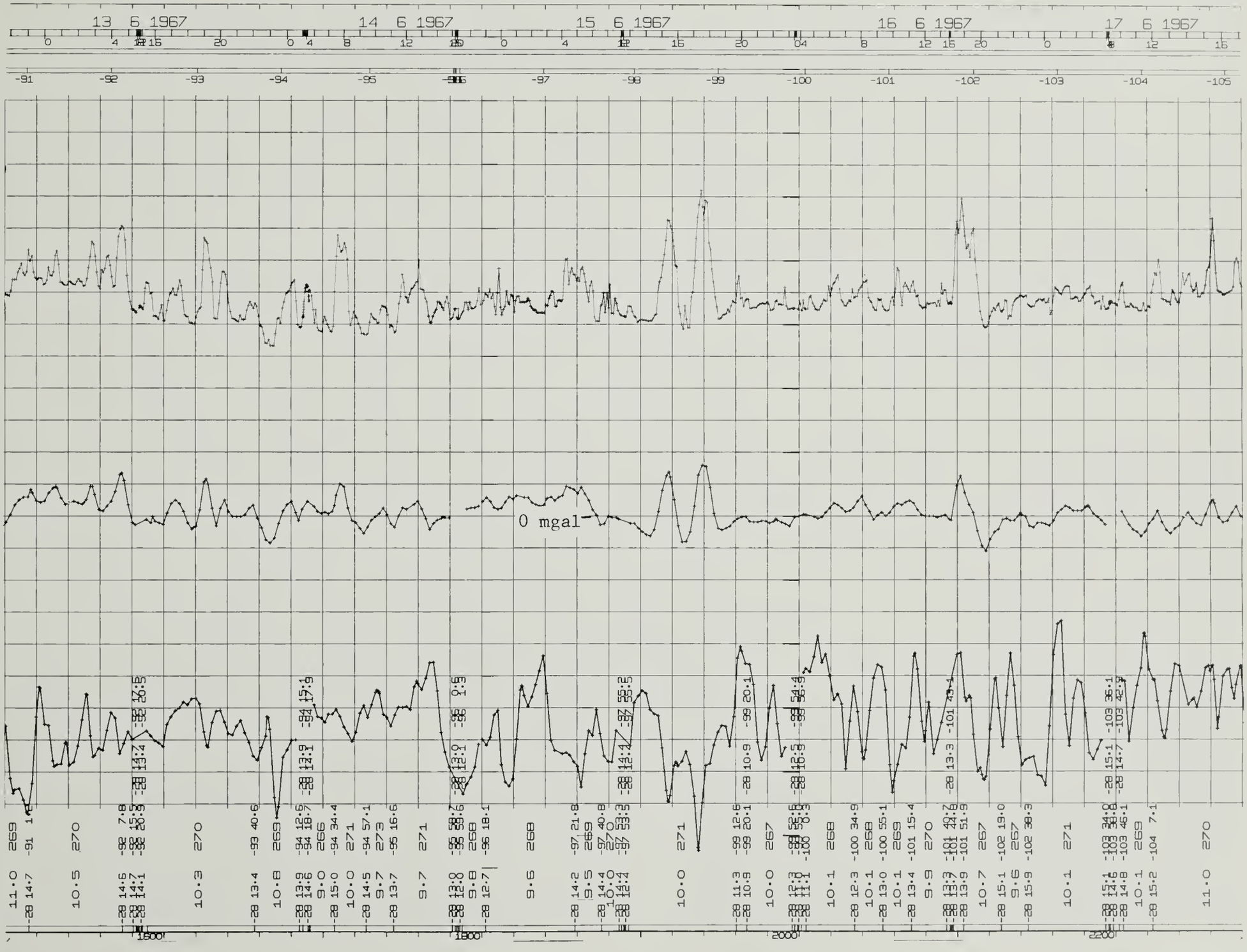
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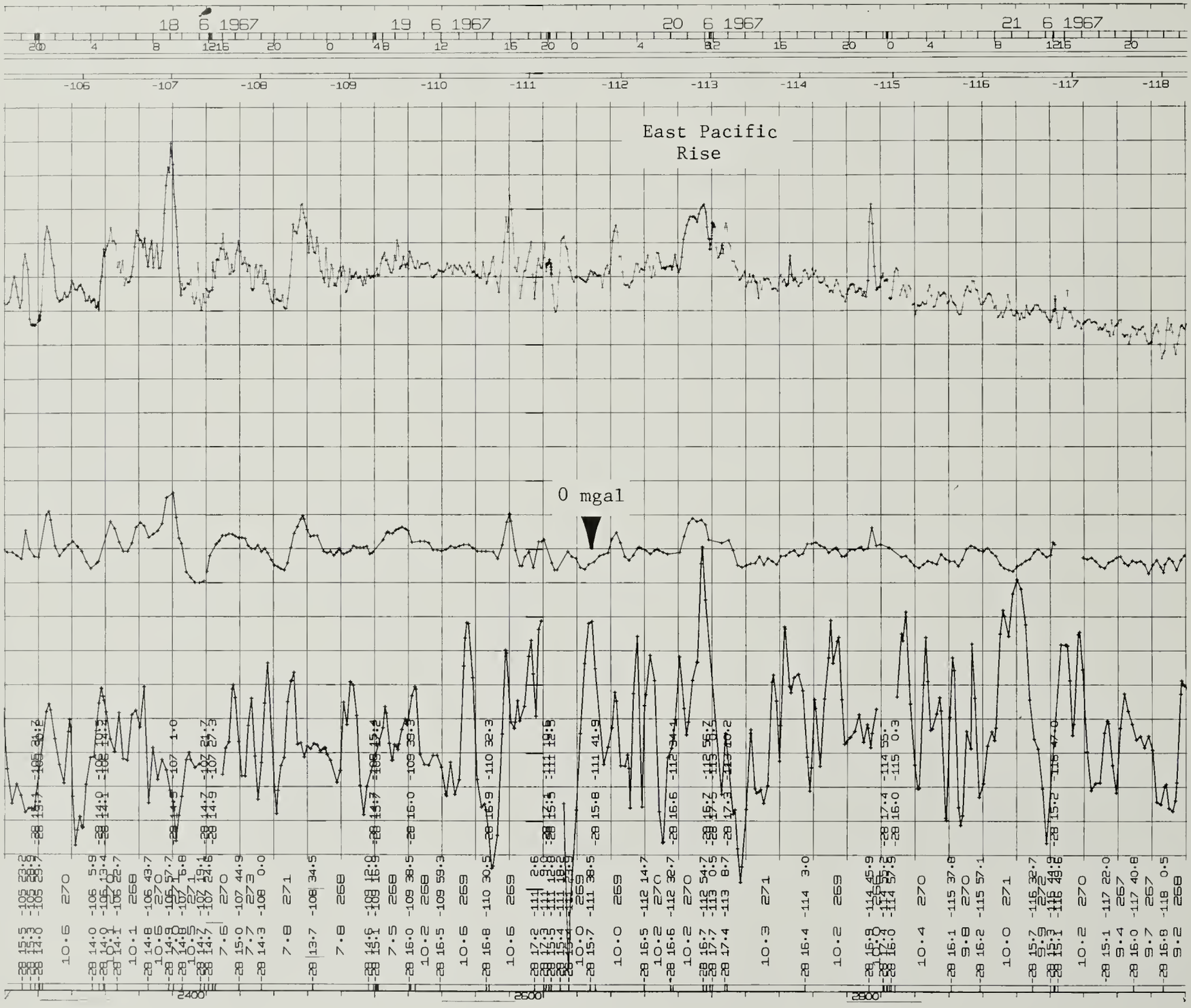
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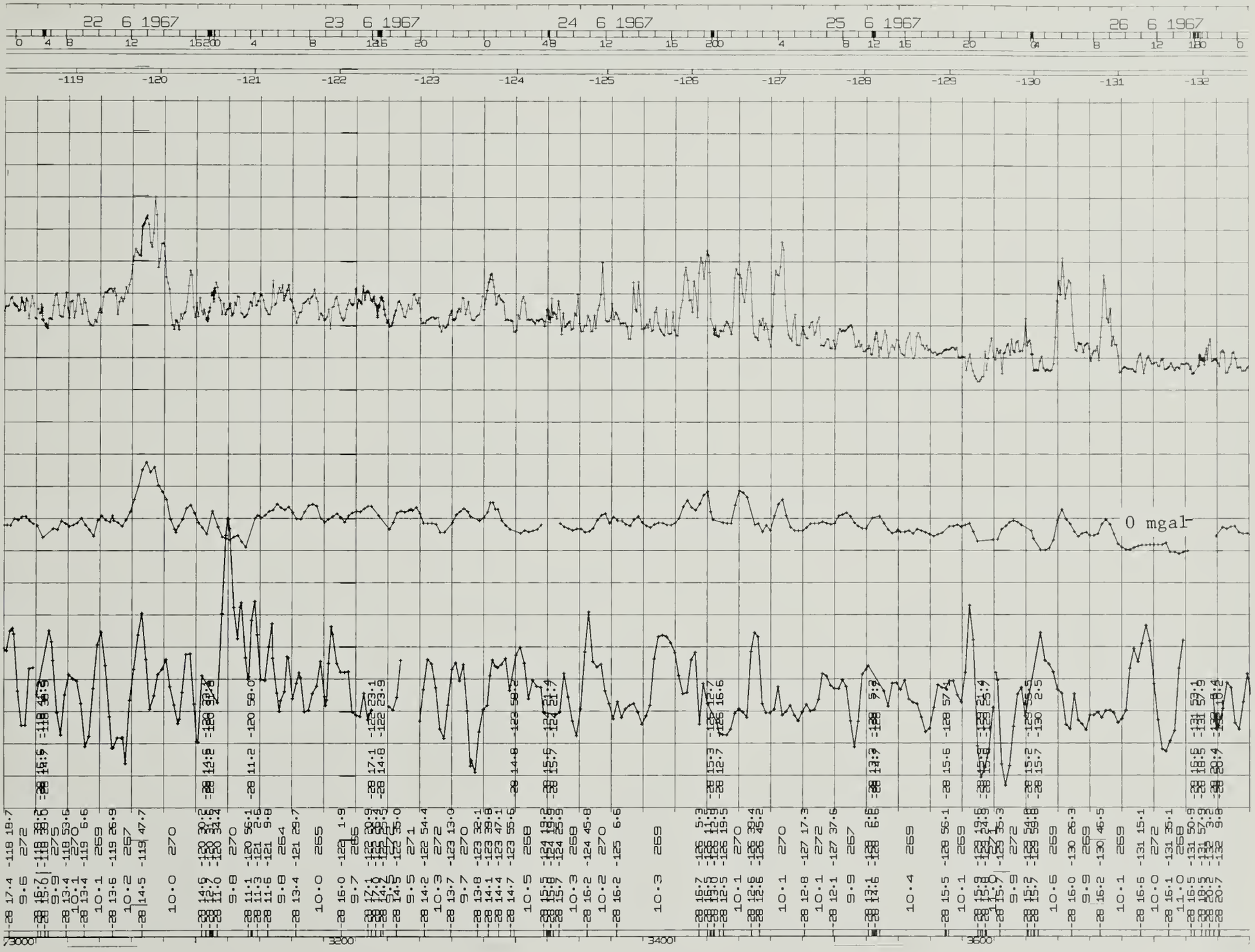
19 6 1967
20 6 1967
21 6 1967
East Pacific
Rise
0 mgal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24 6 1967
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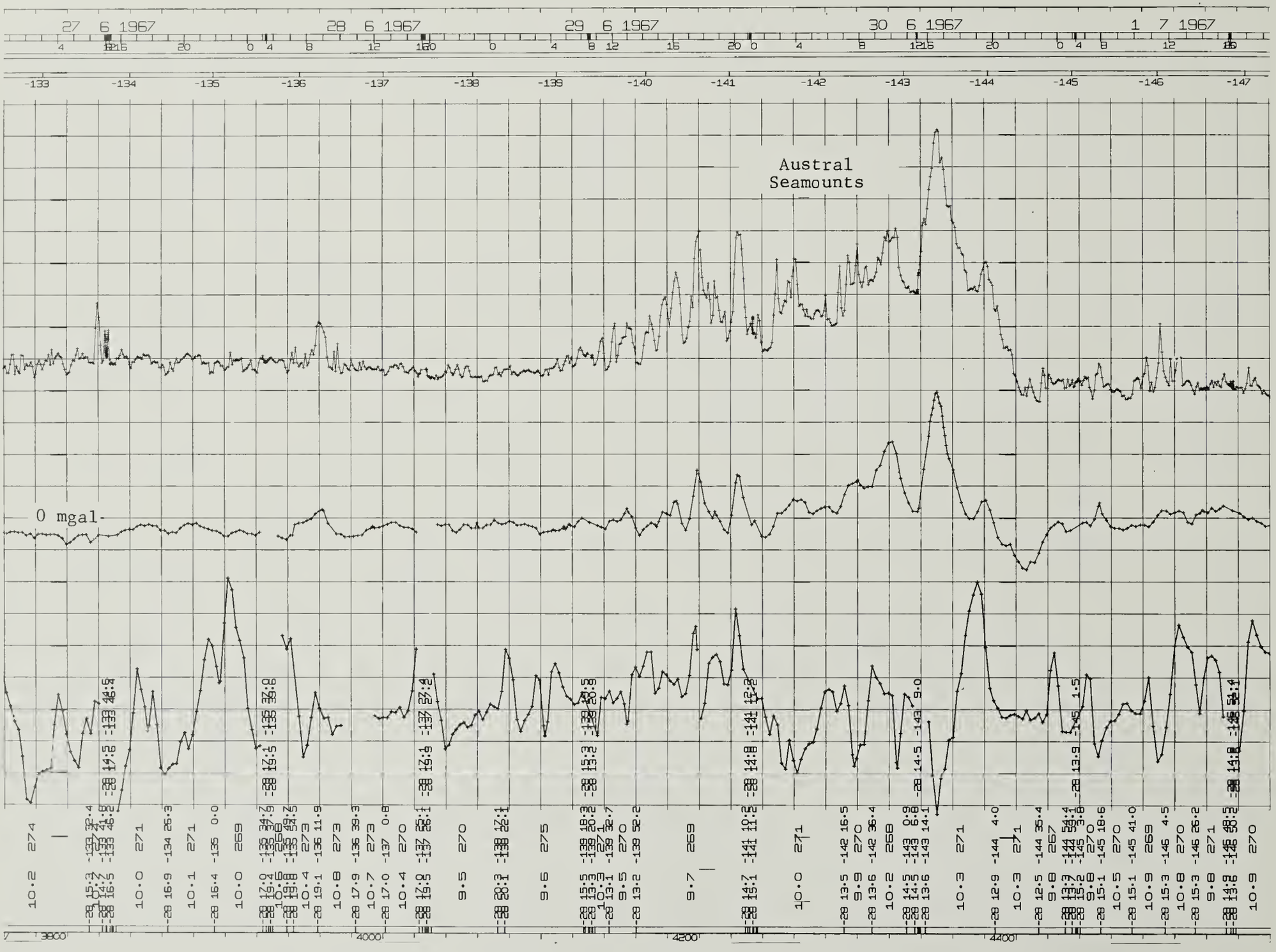
0 mgal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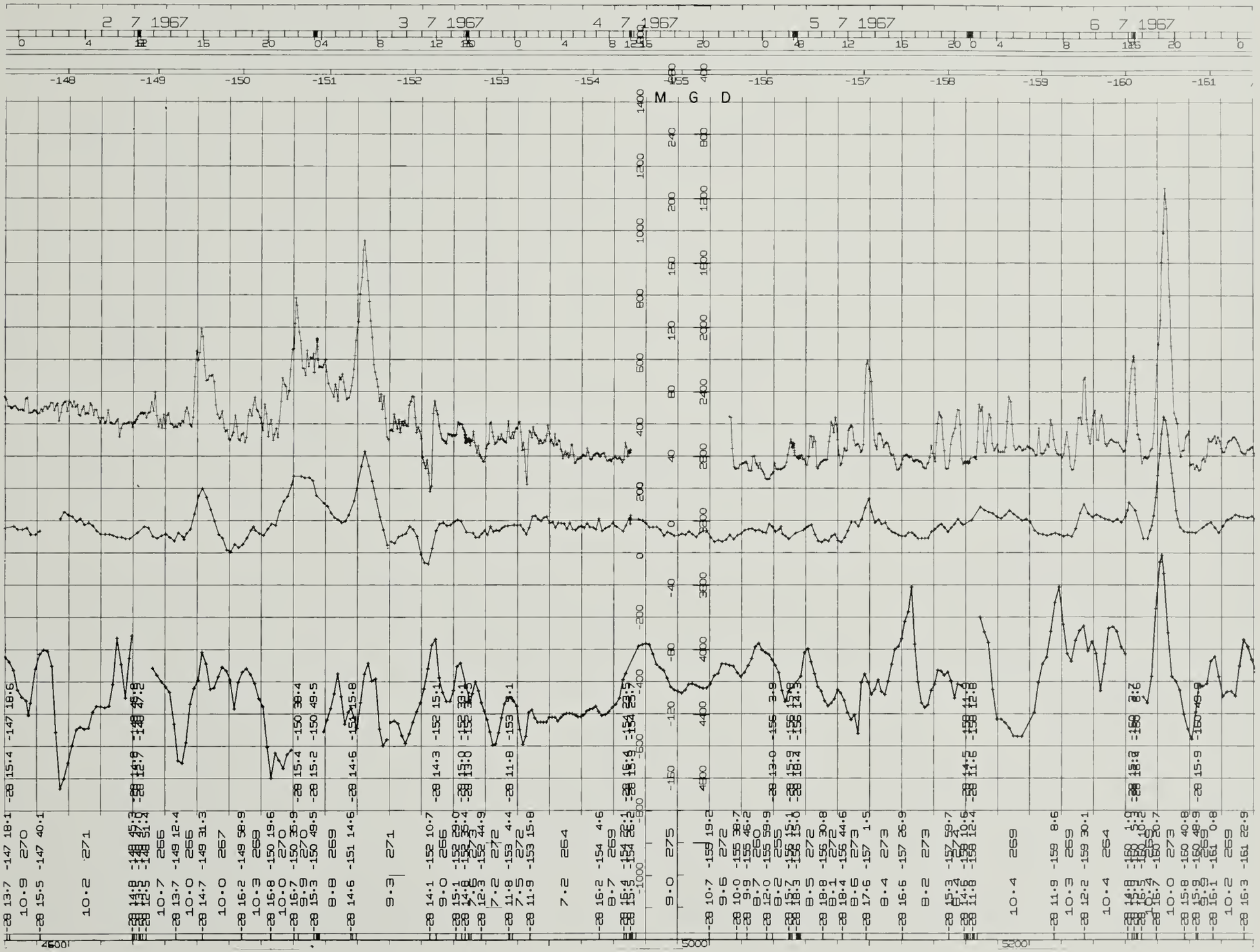
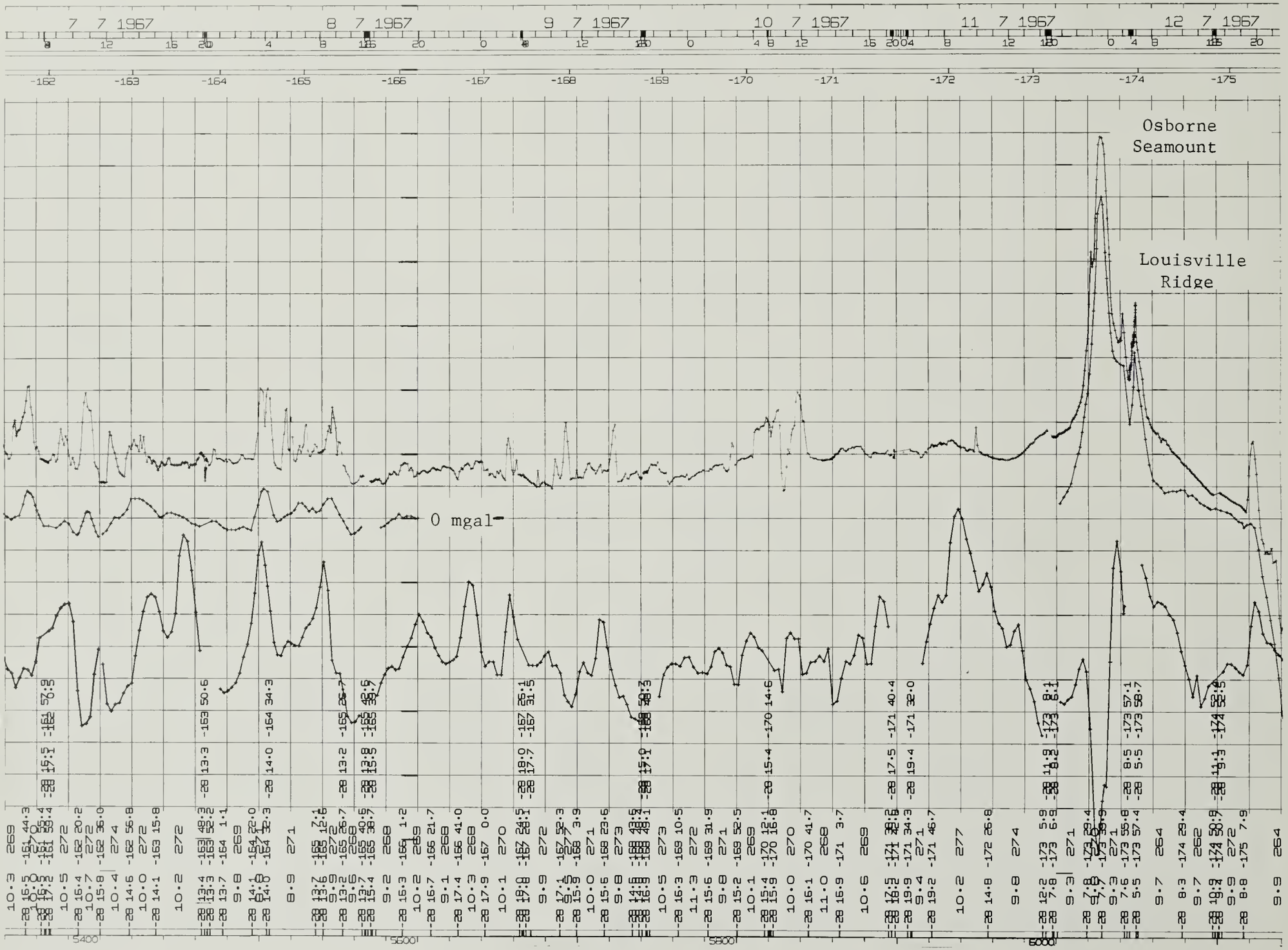
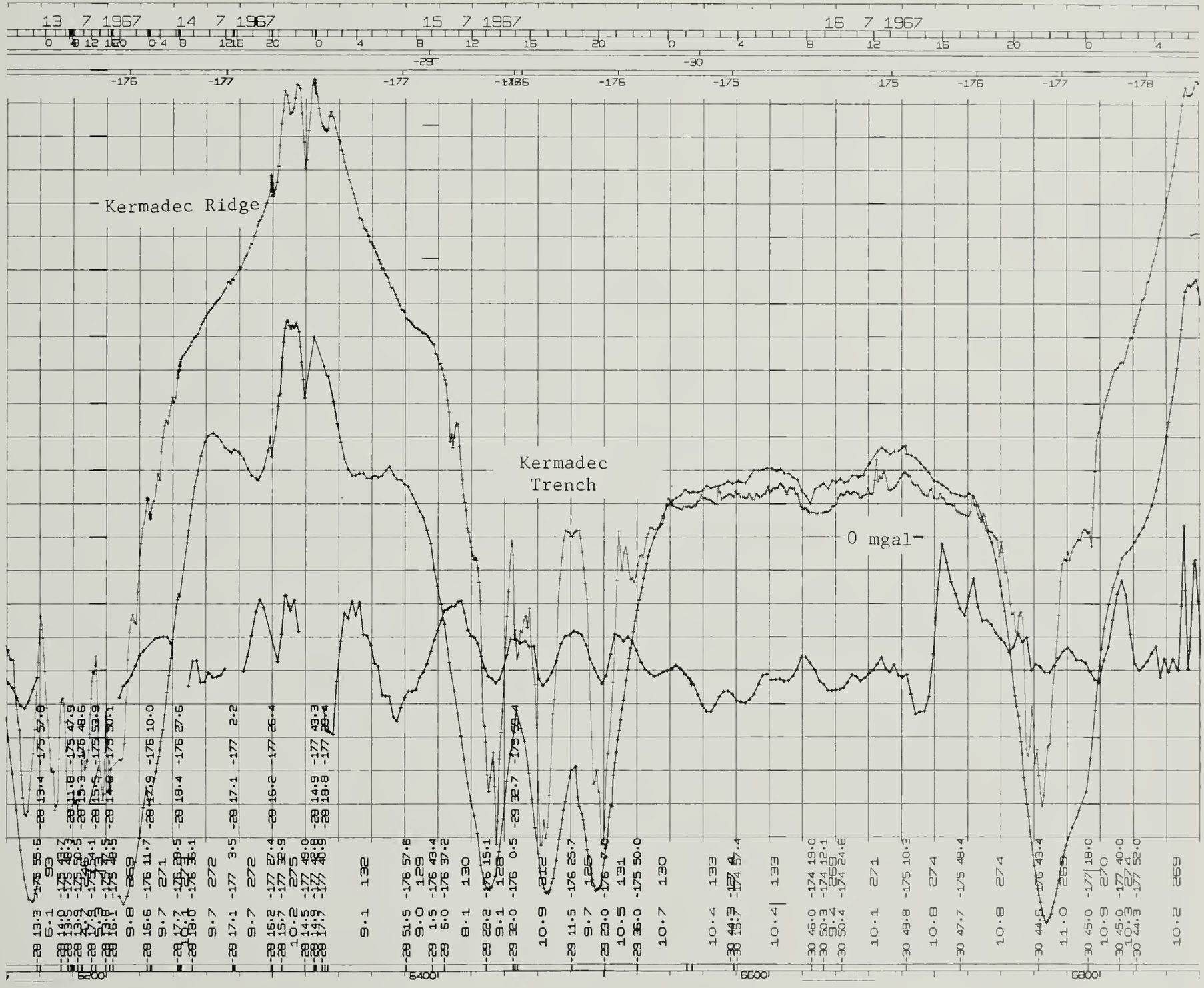
28 6 1967
29 6 1967
30 6 1967
1 7 1967
Austral
Seamounts
0 mgal


2 7 1967
3 7 1967
4 7 1967
5 7 1967
6 7 1967
M G D


7 7 1967
8 7 1967
9 7 1967
10 7 1967
11 7 1967
12 7 1967
Osborne Seamount
Louisville Ridge
0 mgal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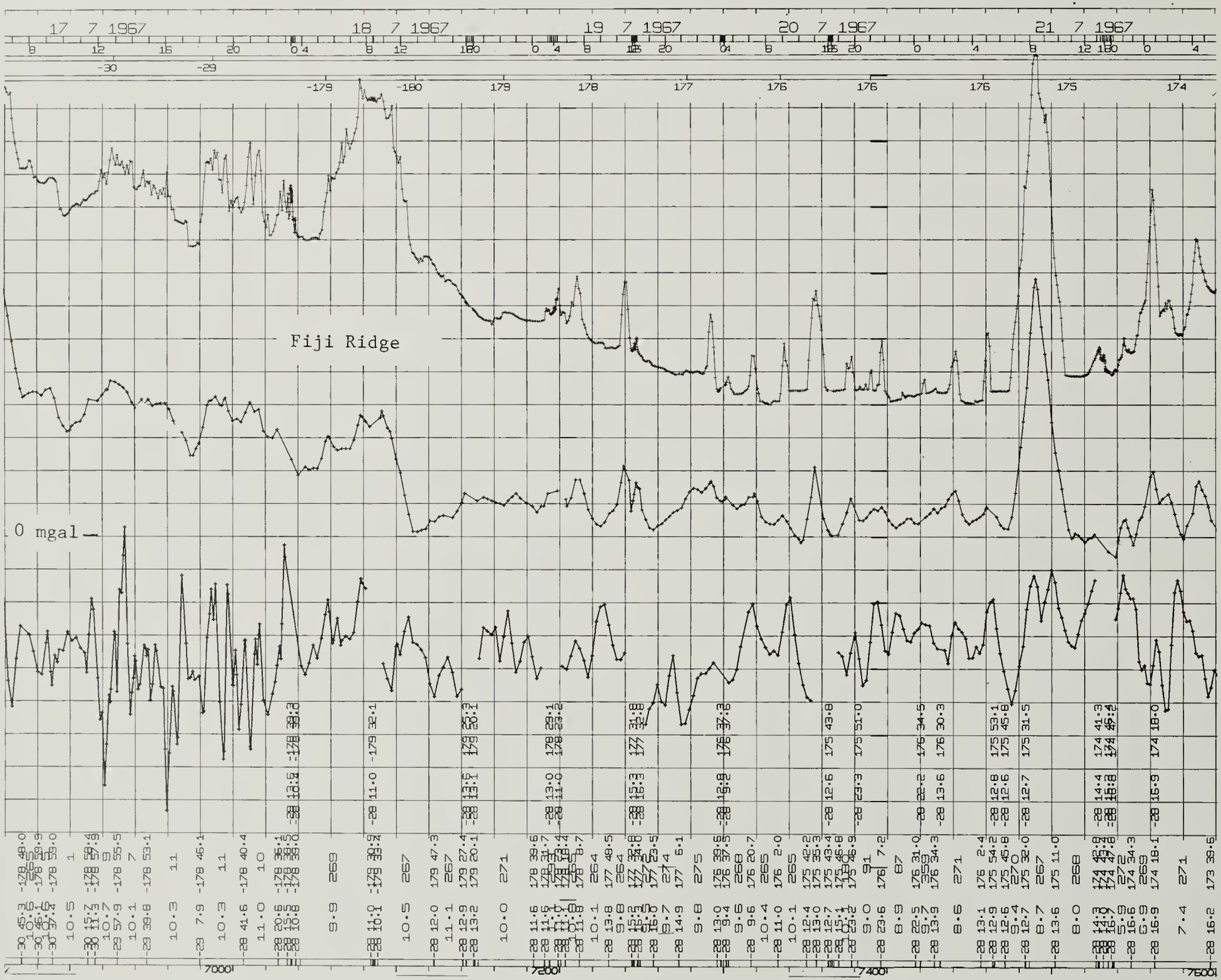
15 7 1967
16 7 1967
Kermadec Ridge
Kermadec
Trench
0 mgal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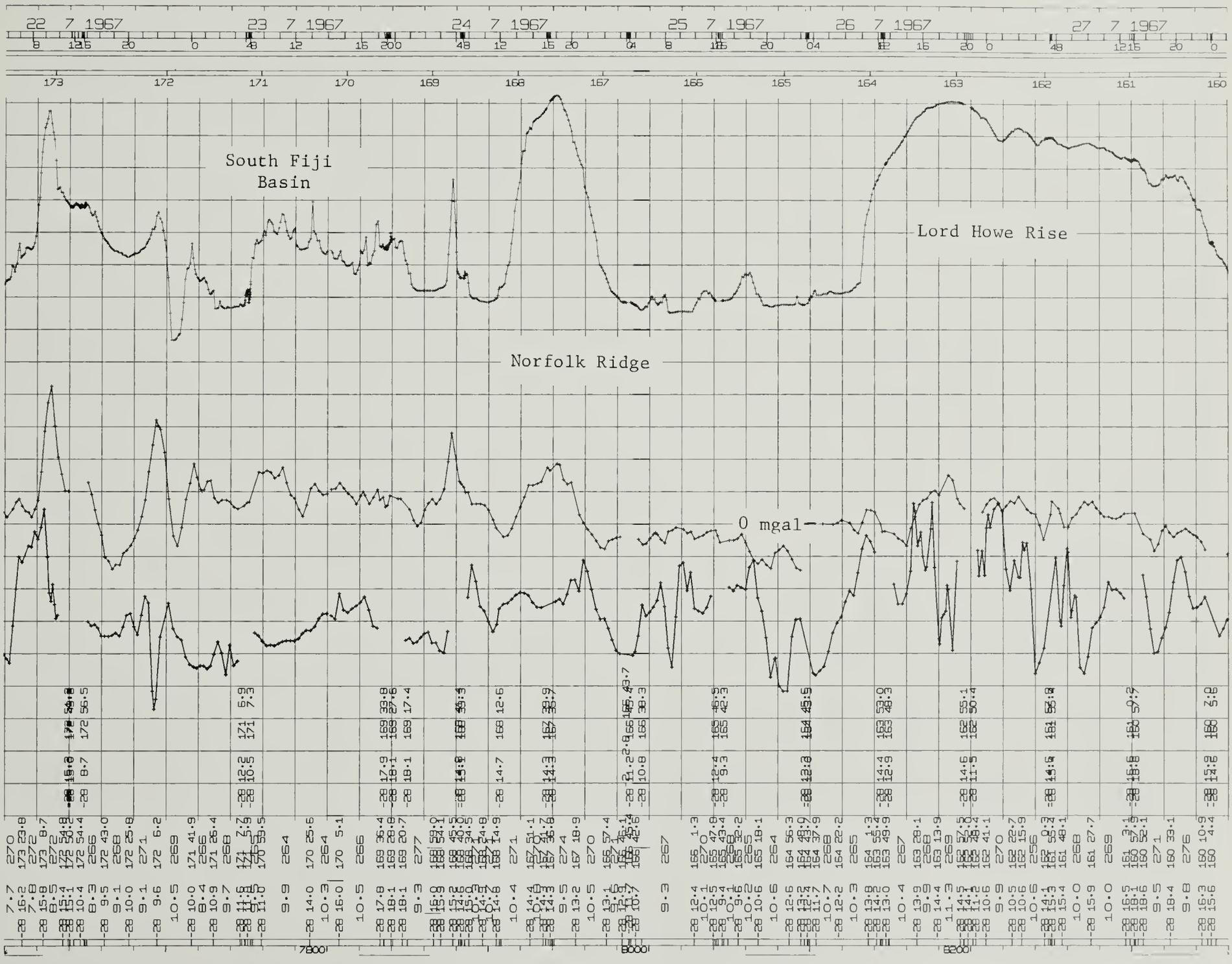
19 7 1967
20 7 1967
21 7 1967
Fiji Ridge
0 mgal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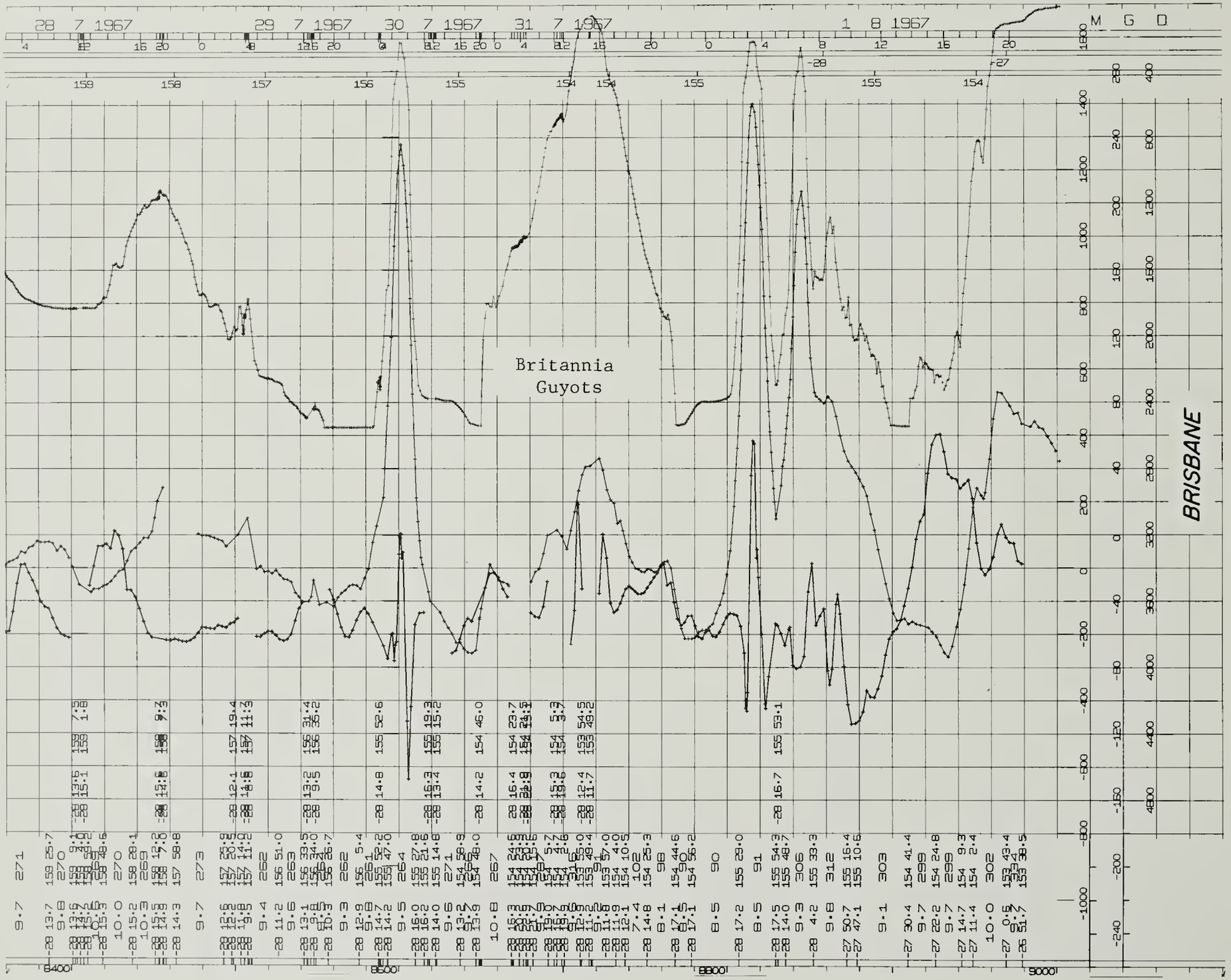
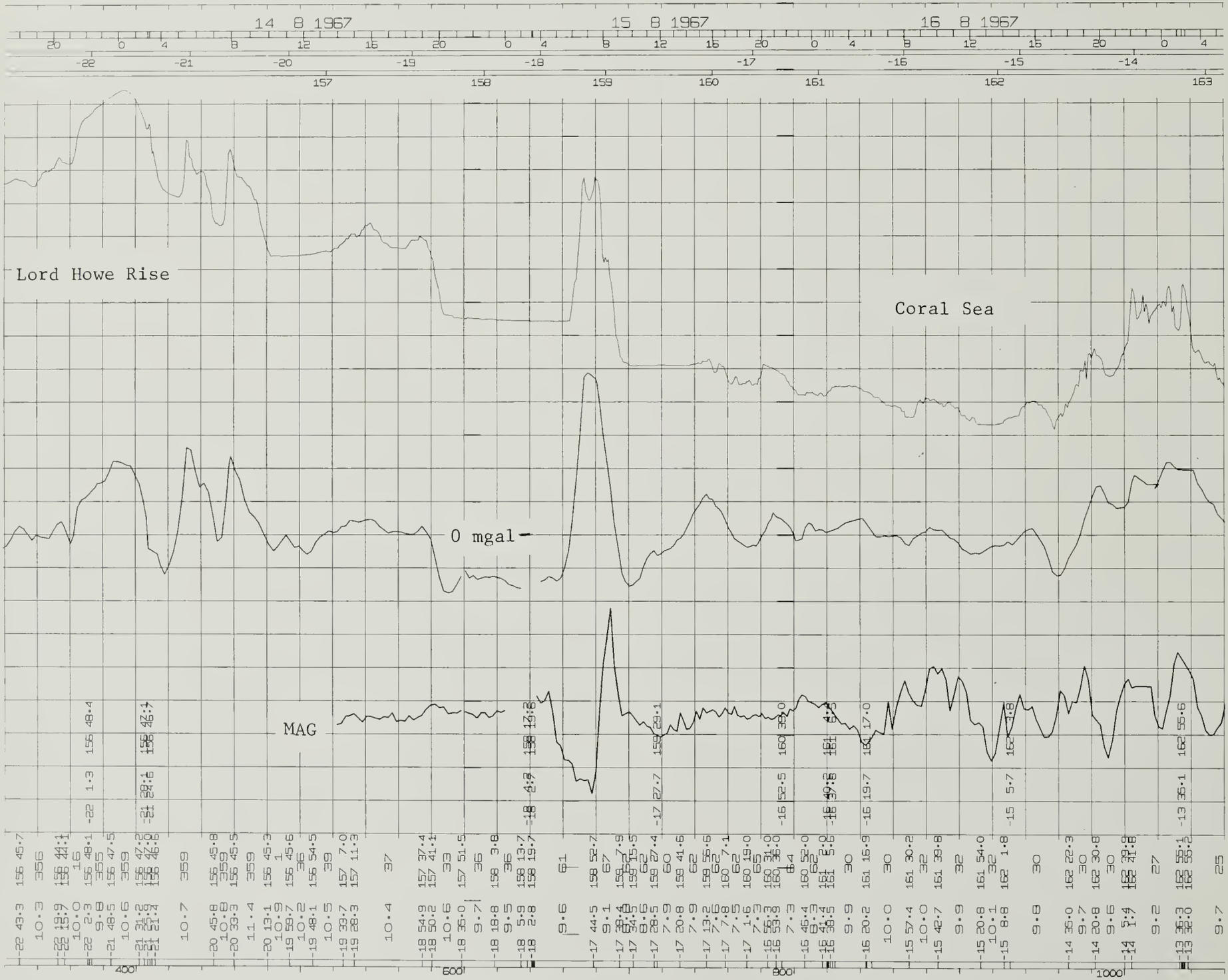
23 7 1967
24 7 1967
25 7 1967
26 7 1967
27 7 1967
South Fiji Basin
Norfolk Ridge
Lord Howe Rise
0 mgal


28 7 1967
29 7 1967
30 7 1967
31 7 1967
1 8 1967
M G D
Britannia
Guyots
BRISBANE

M G D 12 8 1967
13 8 1967
TOPO
FAA
BRISBANE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16 8 1967
Lord Howe Rise
Coral Sea
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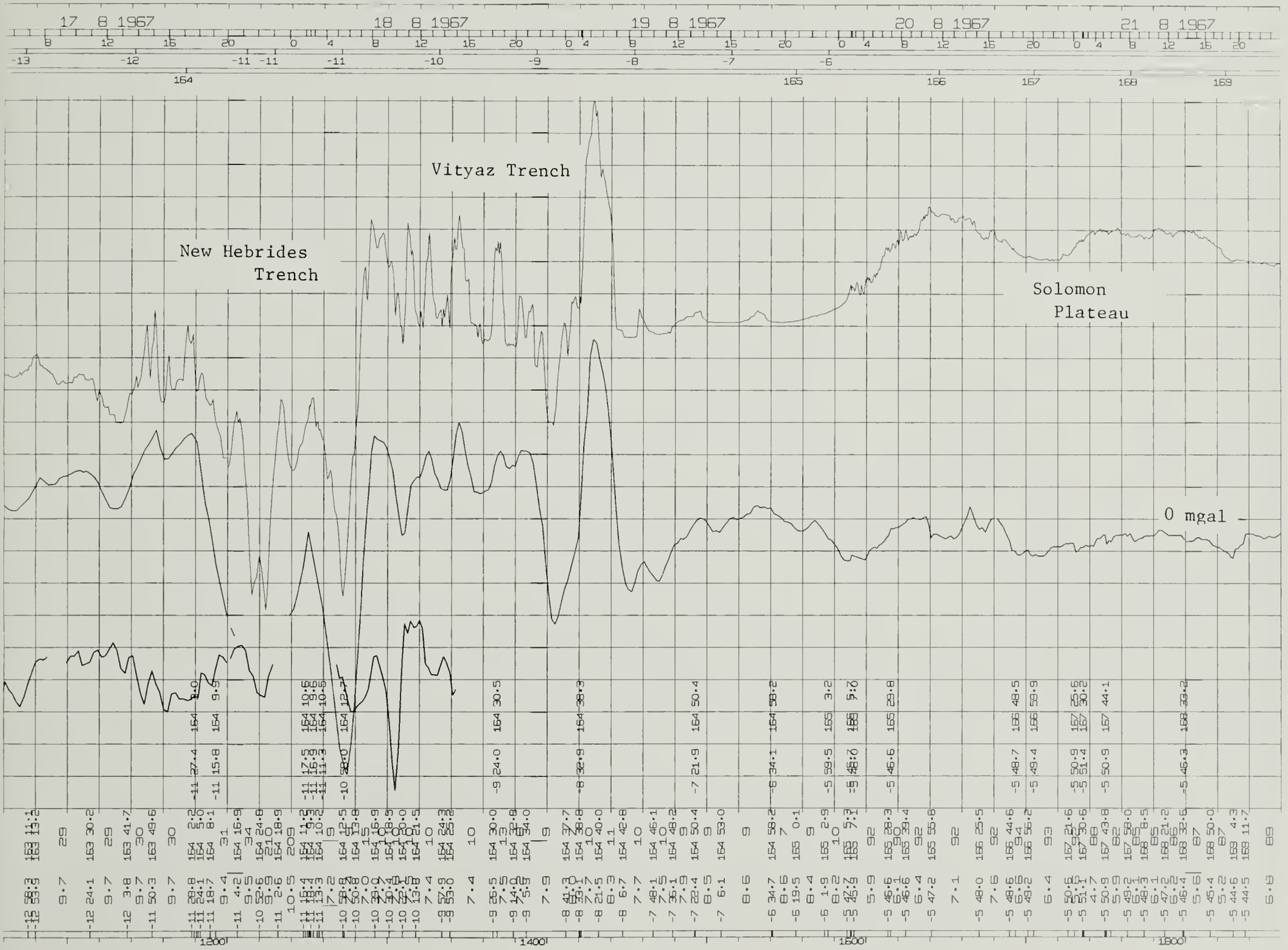
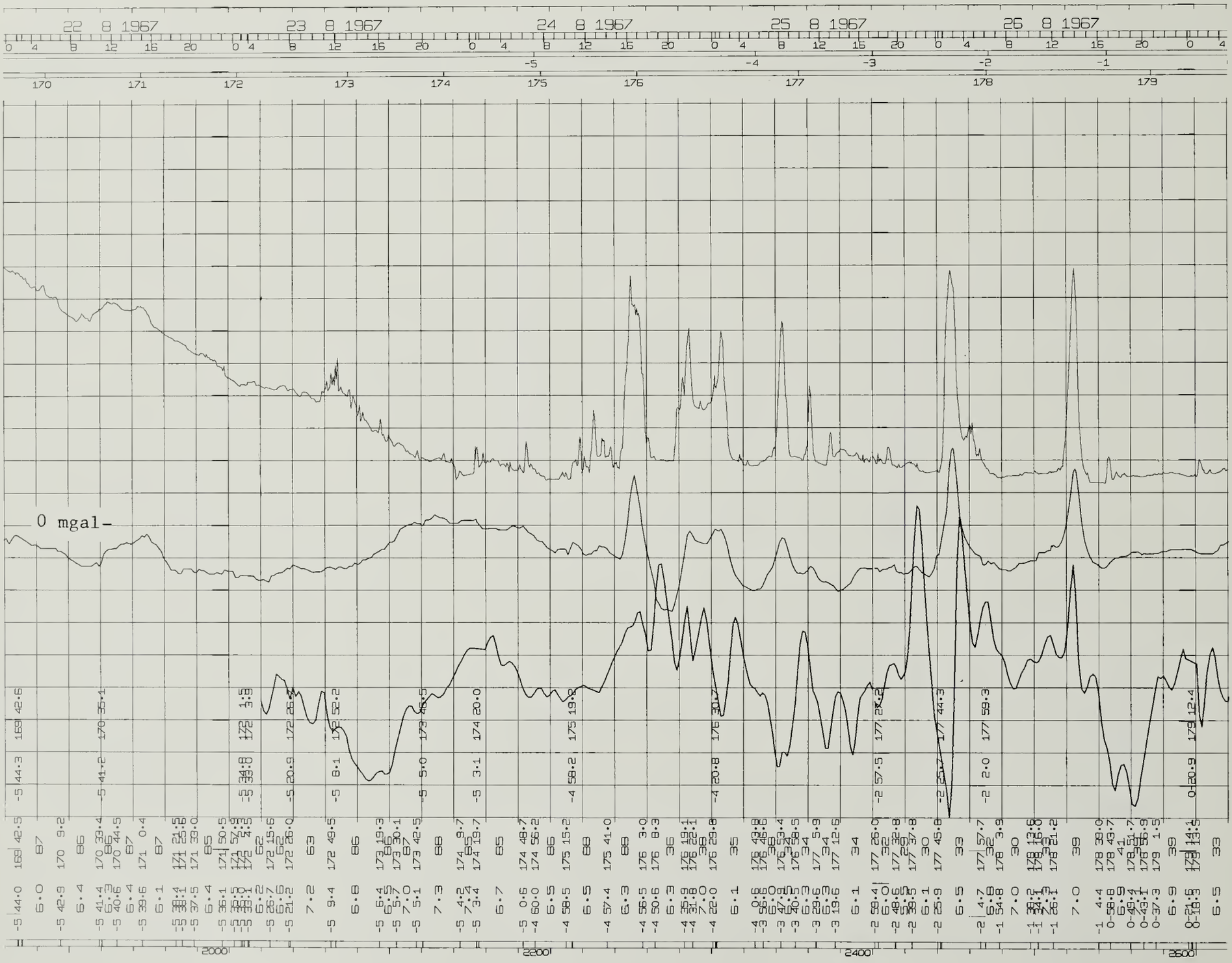
MAG


17 8 1967
18 8 1967
19 8 1967
20 8 1967
21 8 1967
Vityaz Trench
New Hebrides
Trench
Solomon
Plateau
0 mgal


22 8 1967
23 8 1967
24 8 1967
25 8 1967
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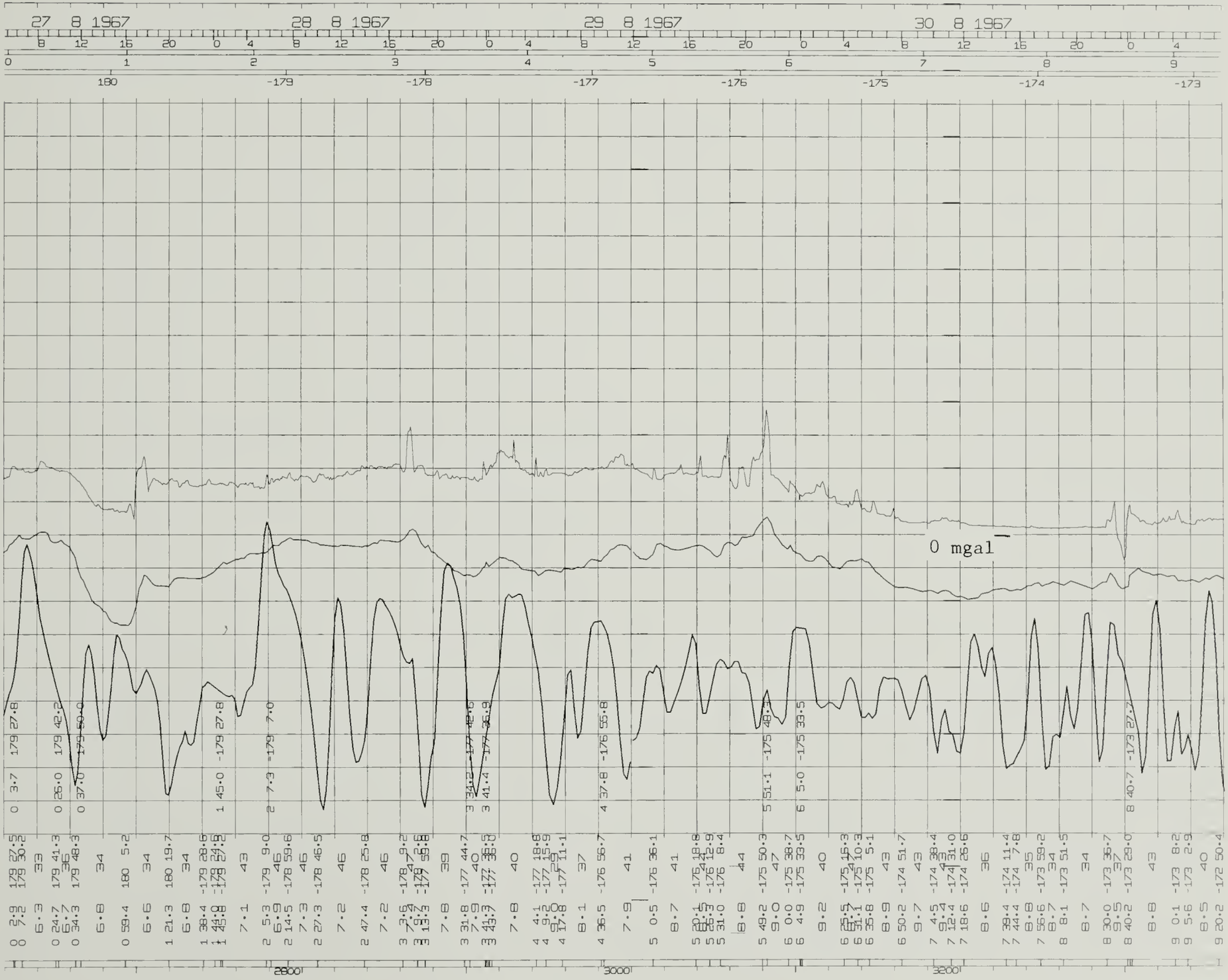
0 mgal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28 8 1967
29 8 1967
30 8 1967
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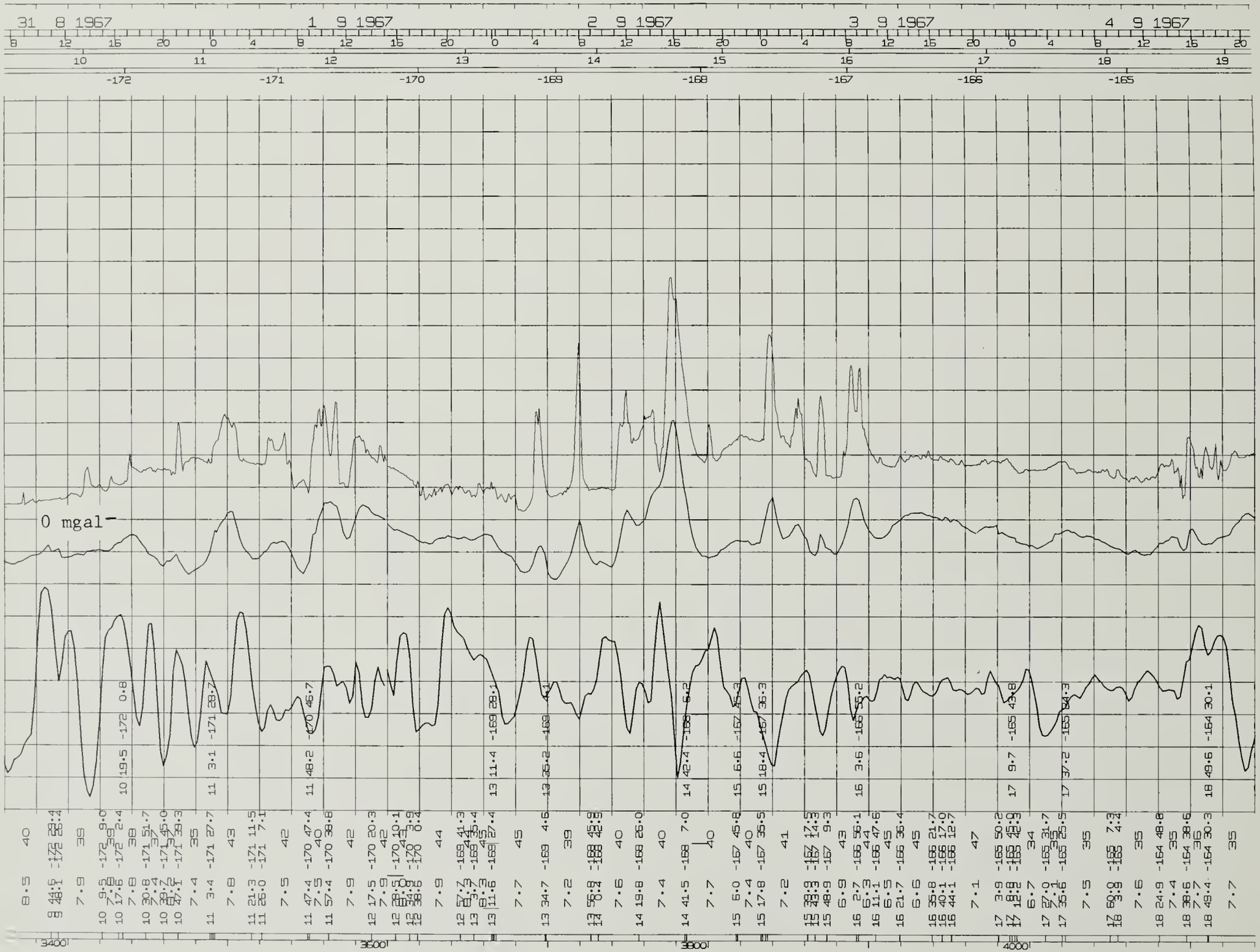
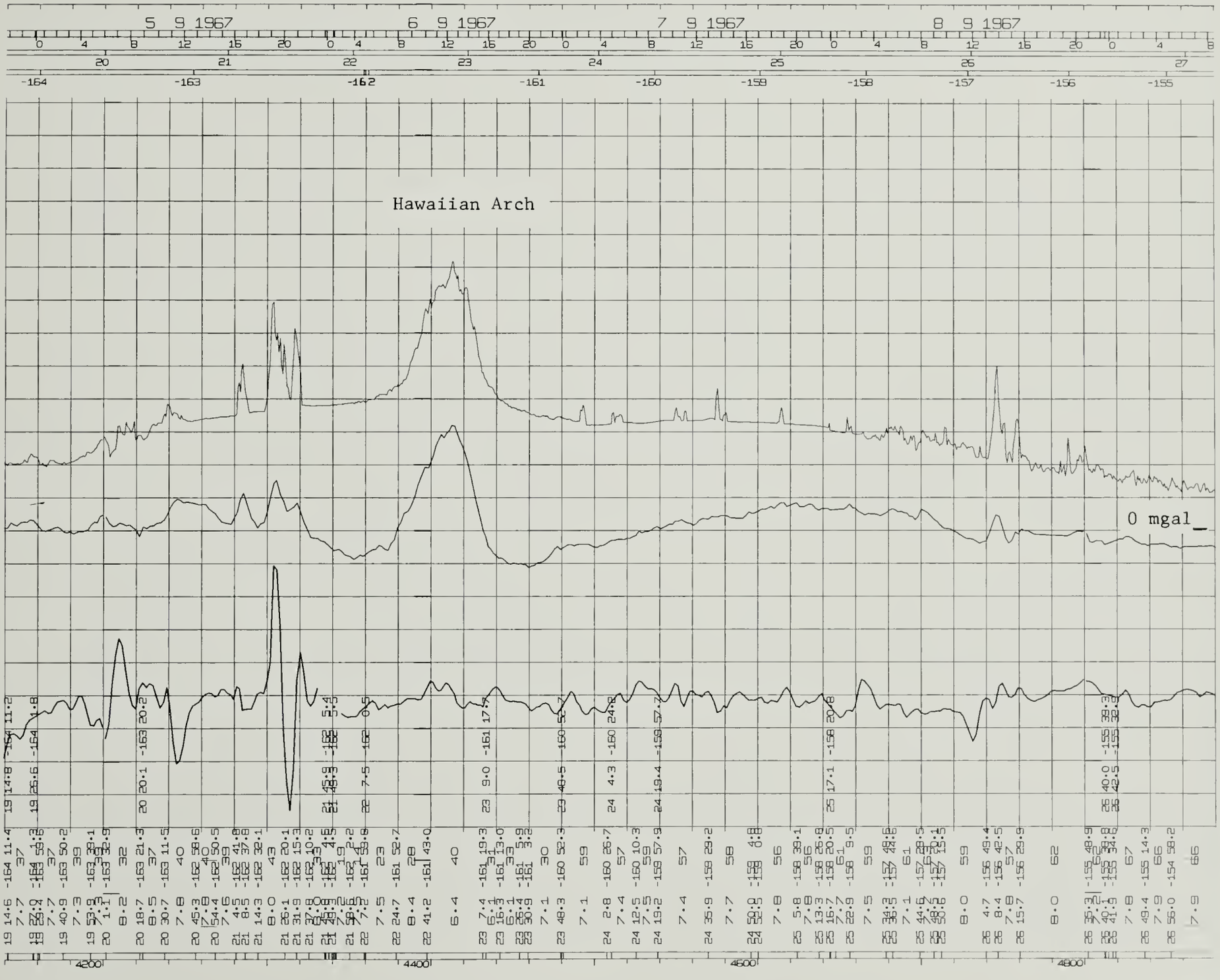
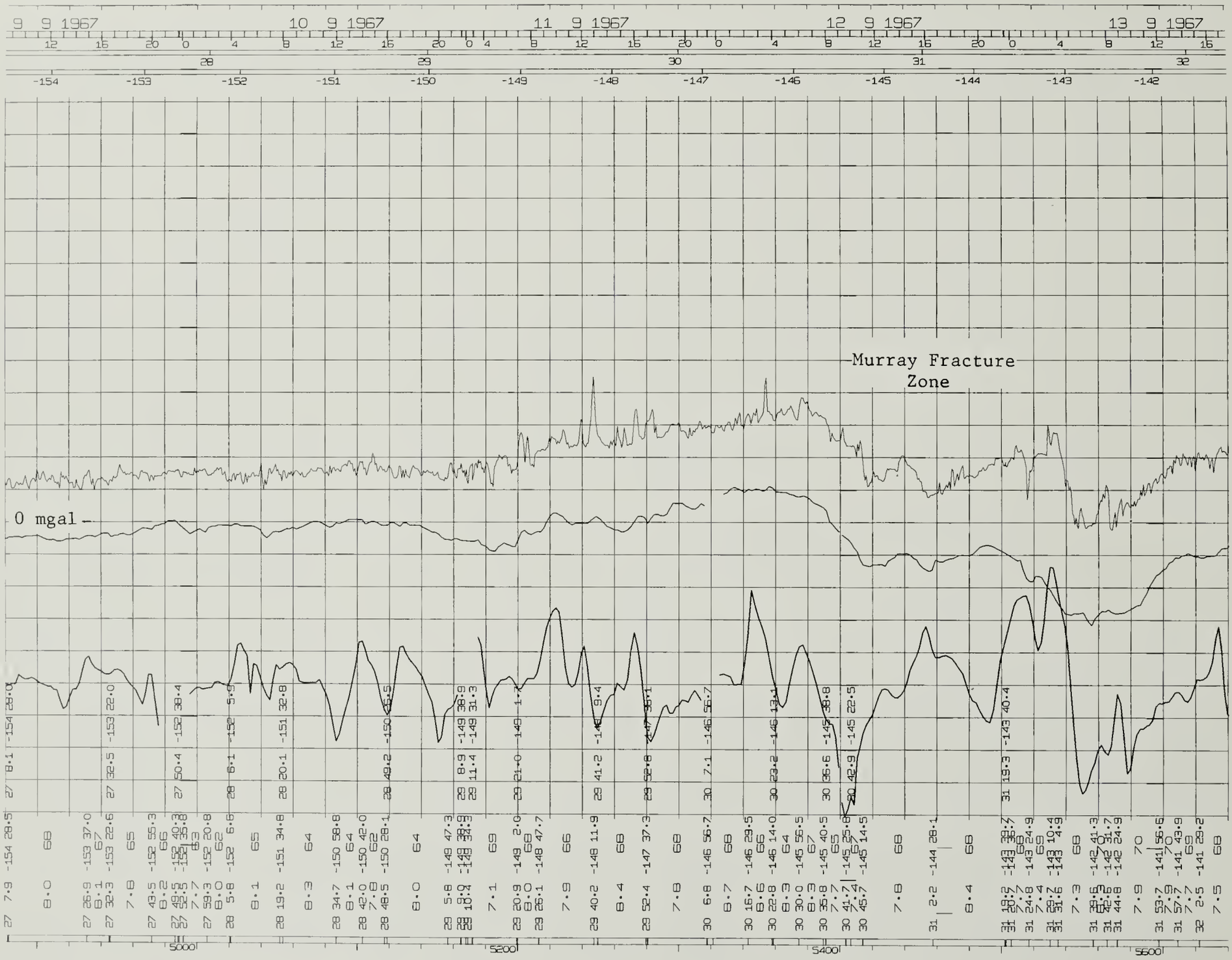
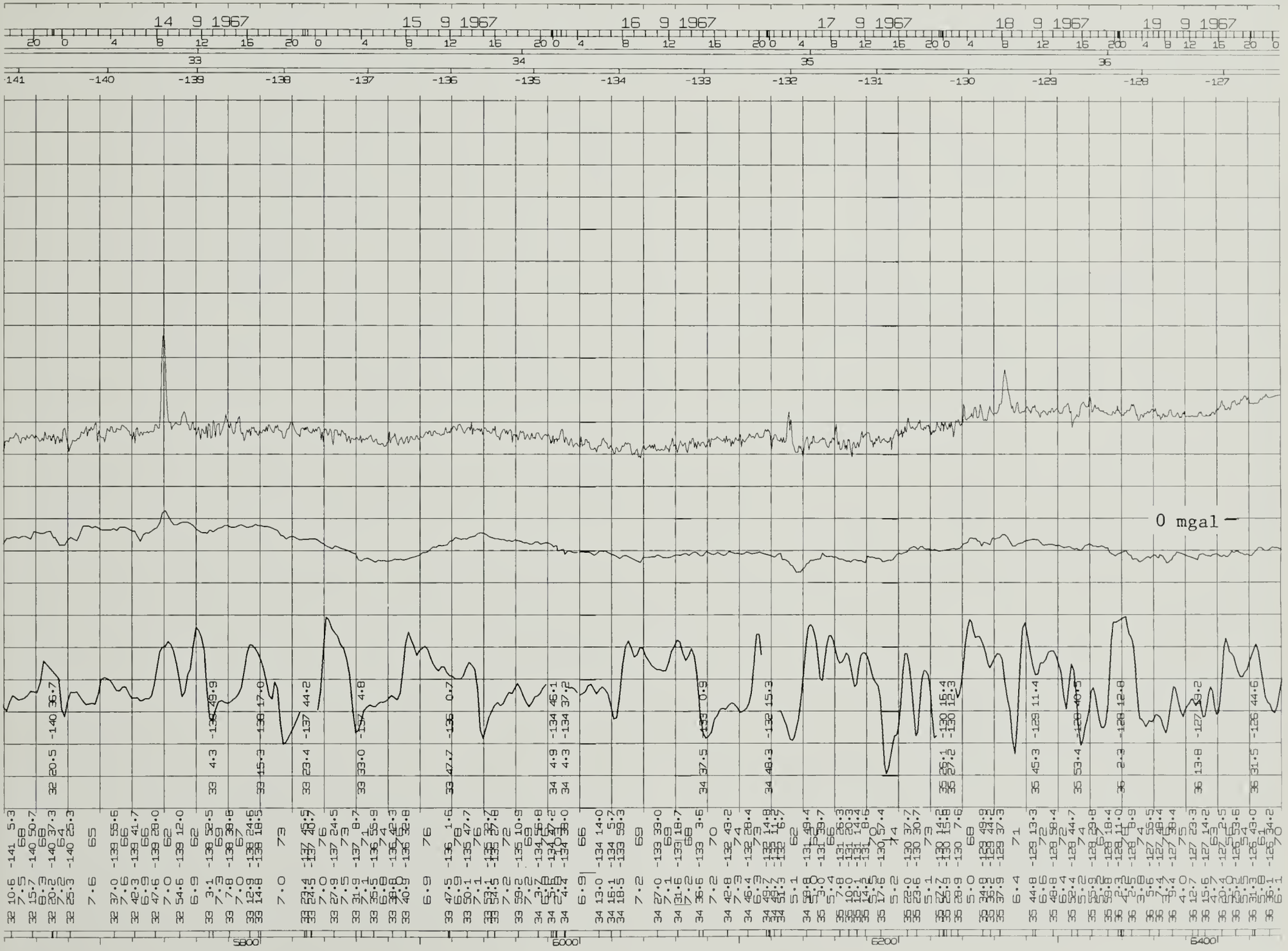
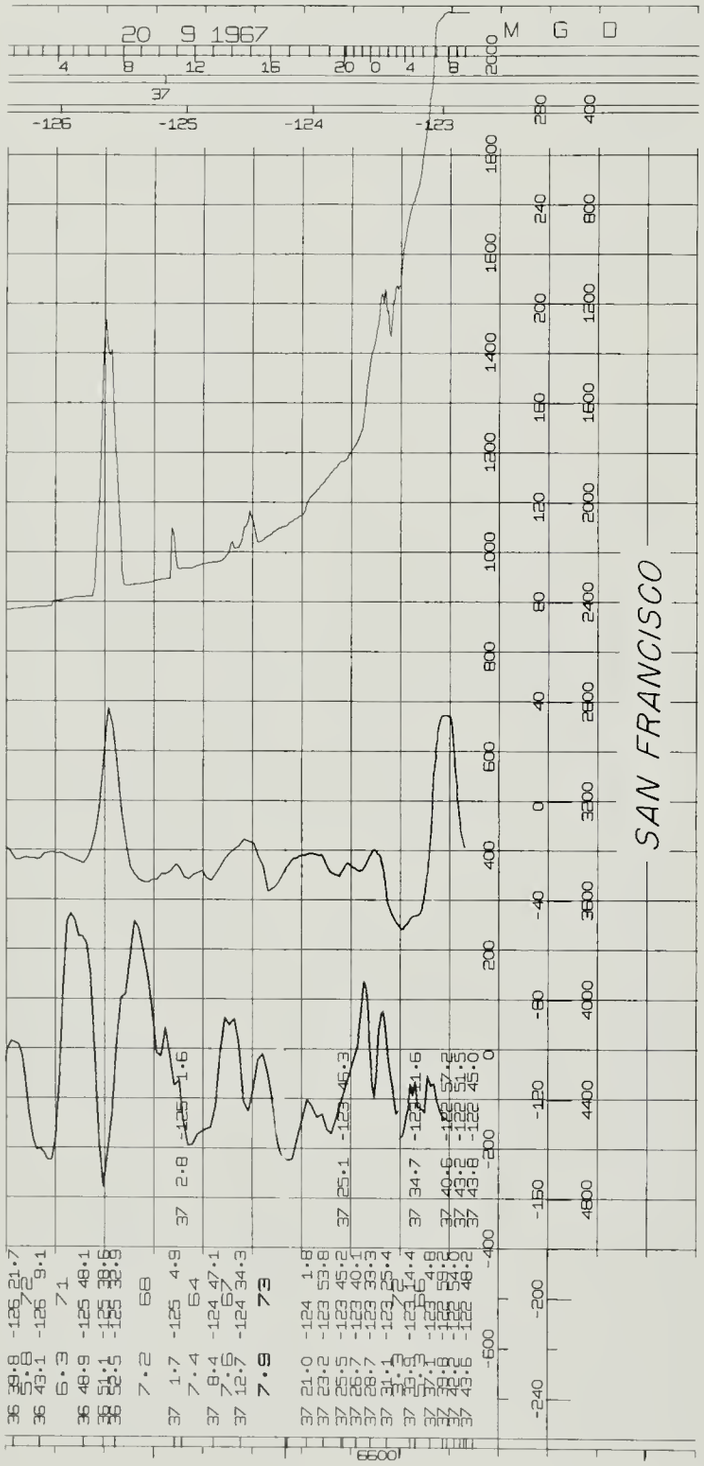
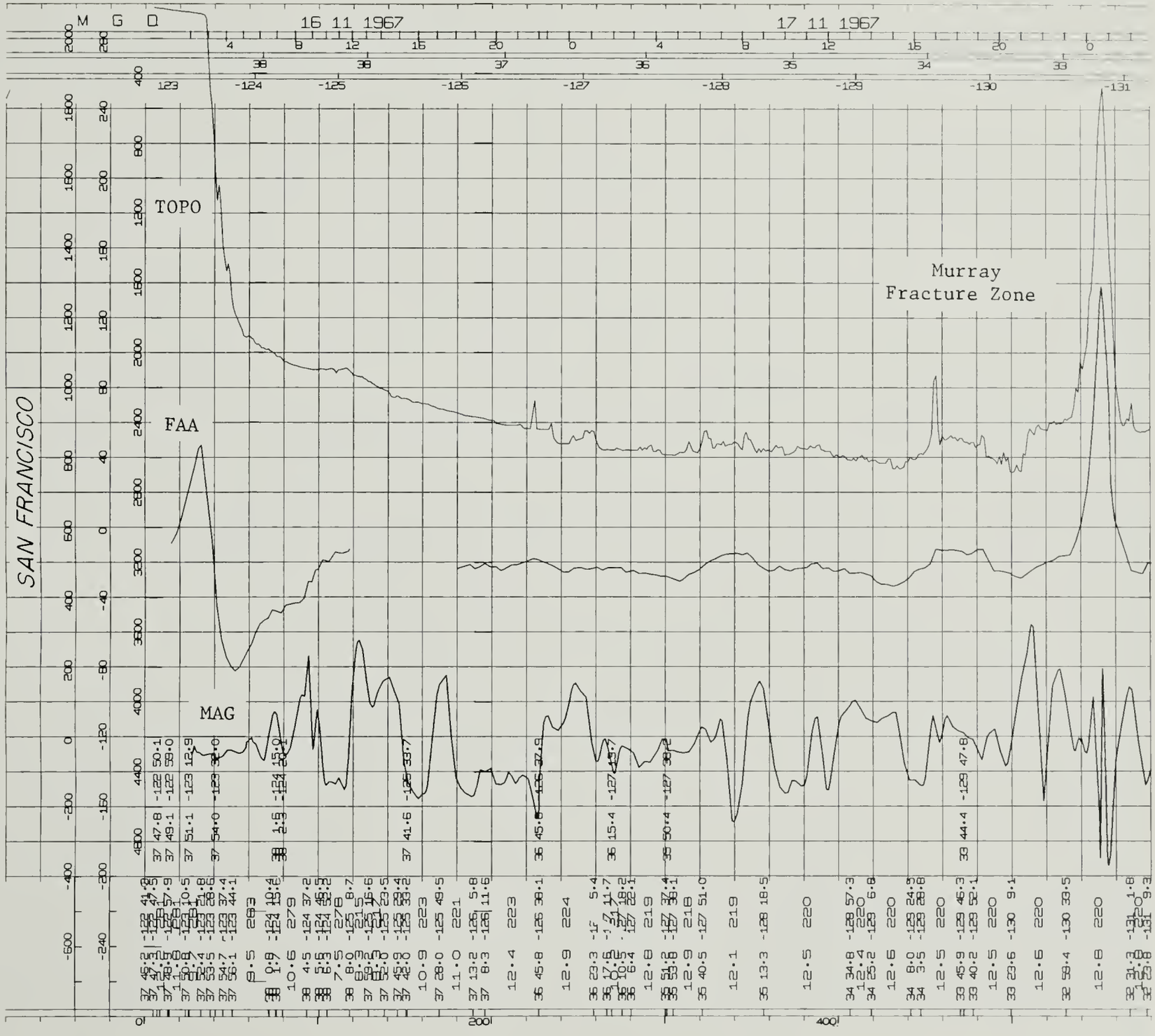

31 8 1967
1 9 1967
2 9 1967
3 9 1967
4 9 1967
0 mgal

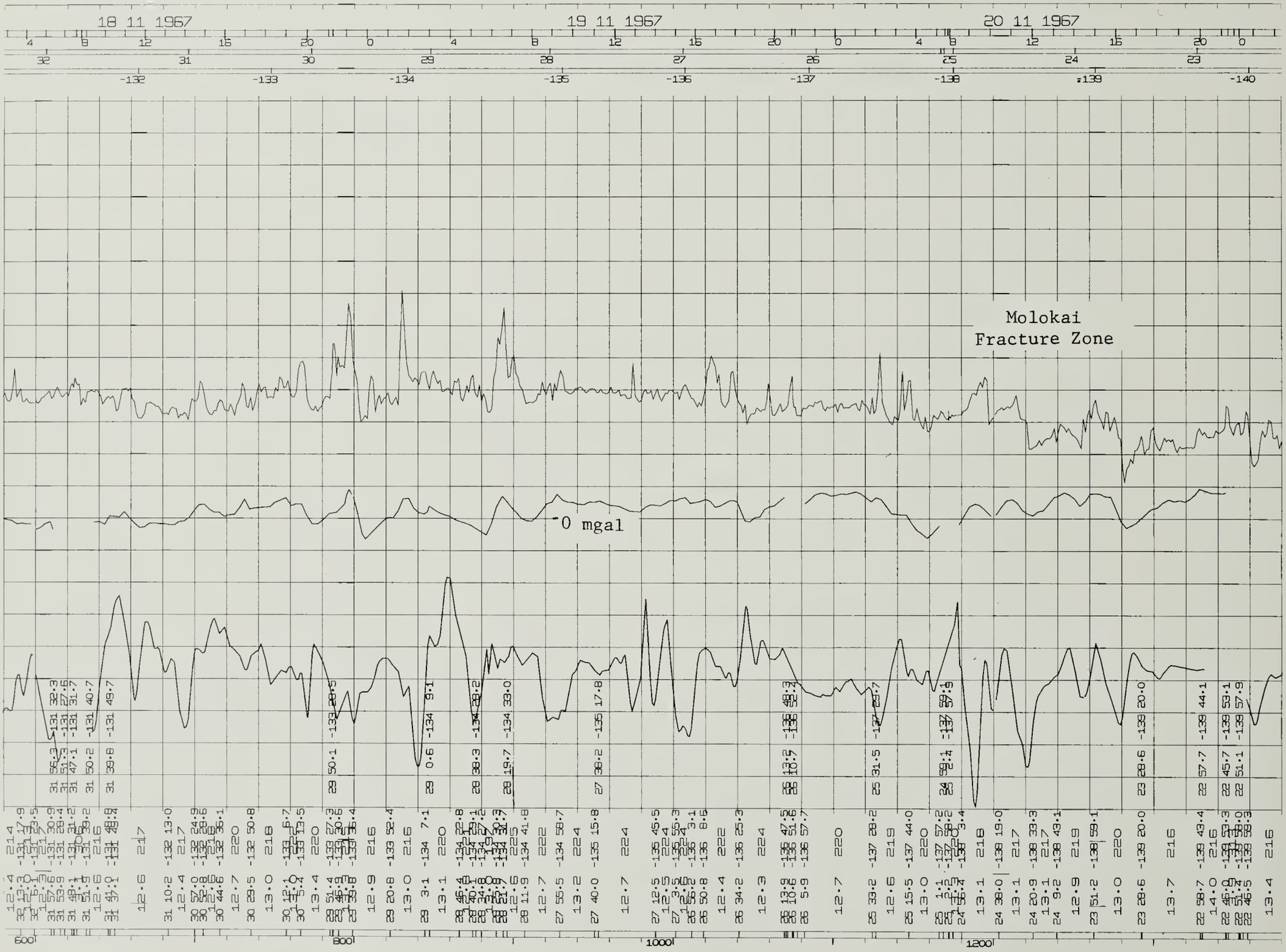

5 9 1967
6 9 1967
7 9 1967
8 9 1967
Hawaiian Arch
0 mgal

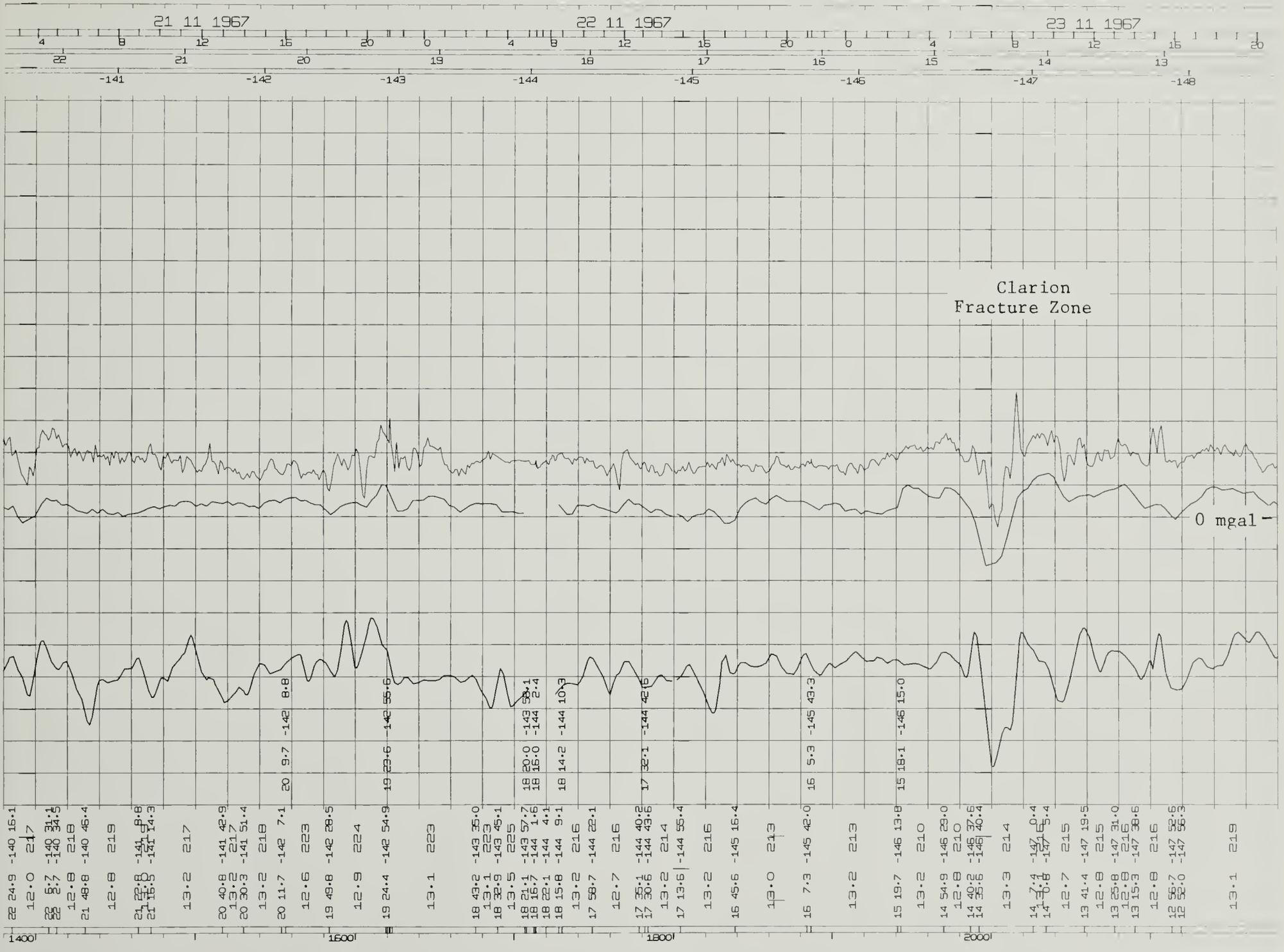

9 9 1967
10 9 1967
11 9 1967
12 9 1967
13 9 1967
Murray Fracture Zone
0 mgal

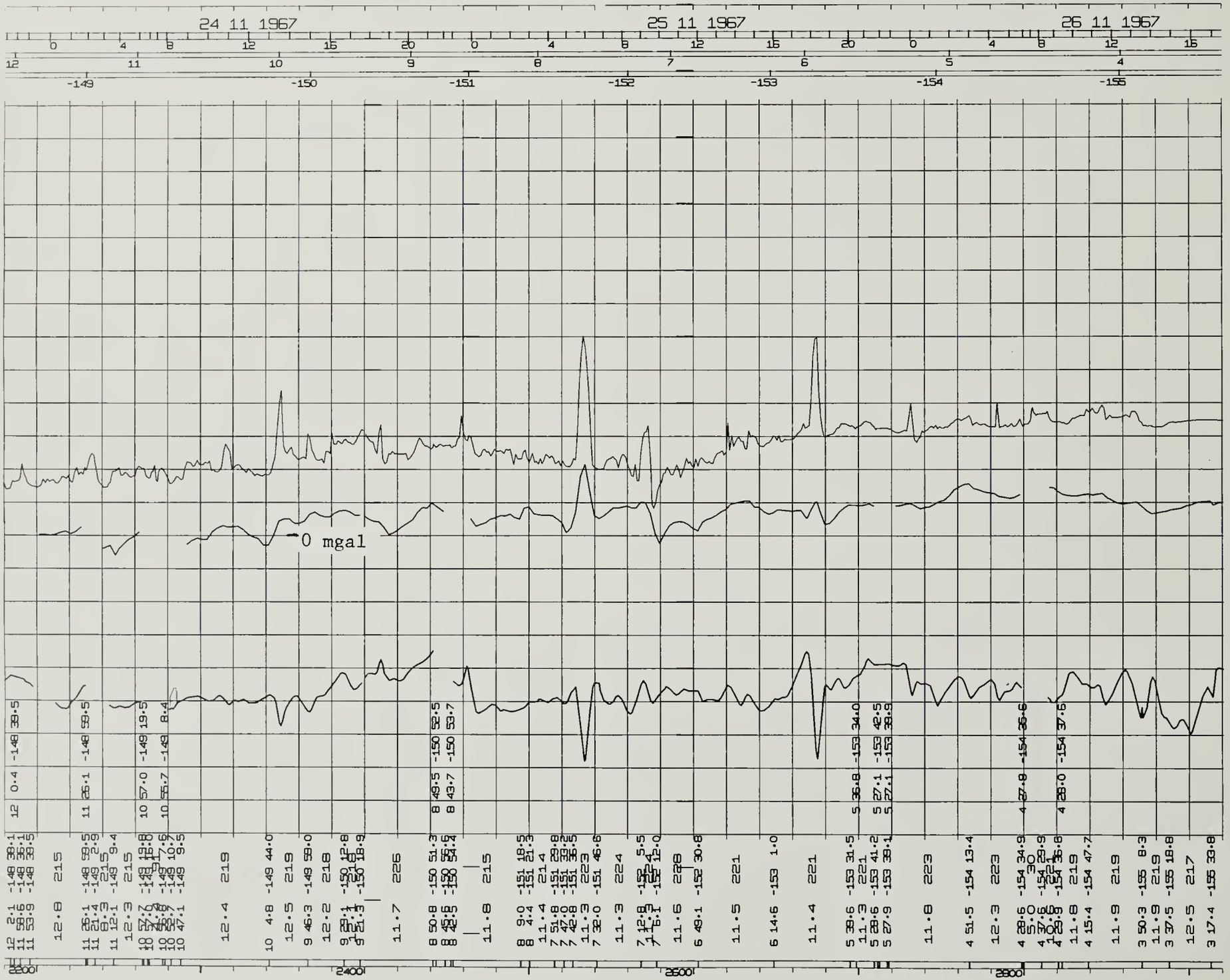

14 9 1967
15 9 1967
16 9 1967
17 9 1967
18 9 1967
19 9 1967
0 mgal
5800
6000
6200
6400

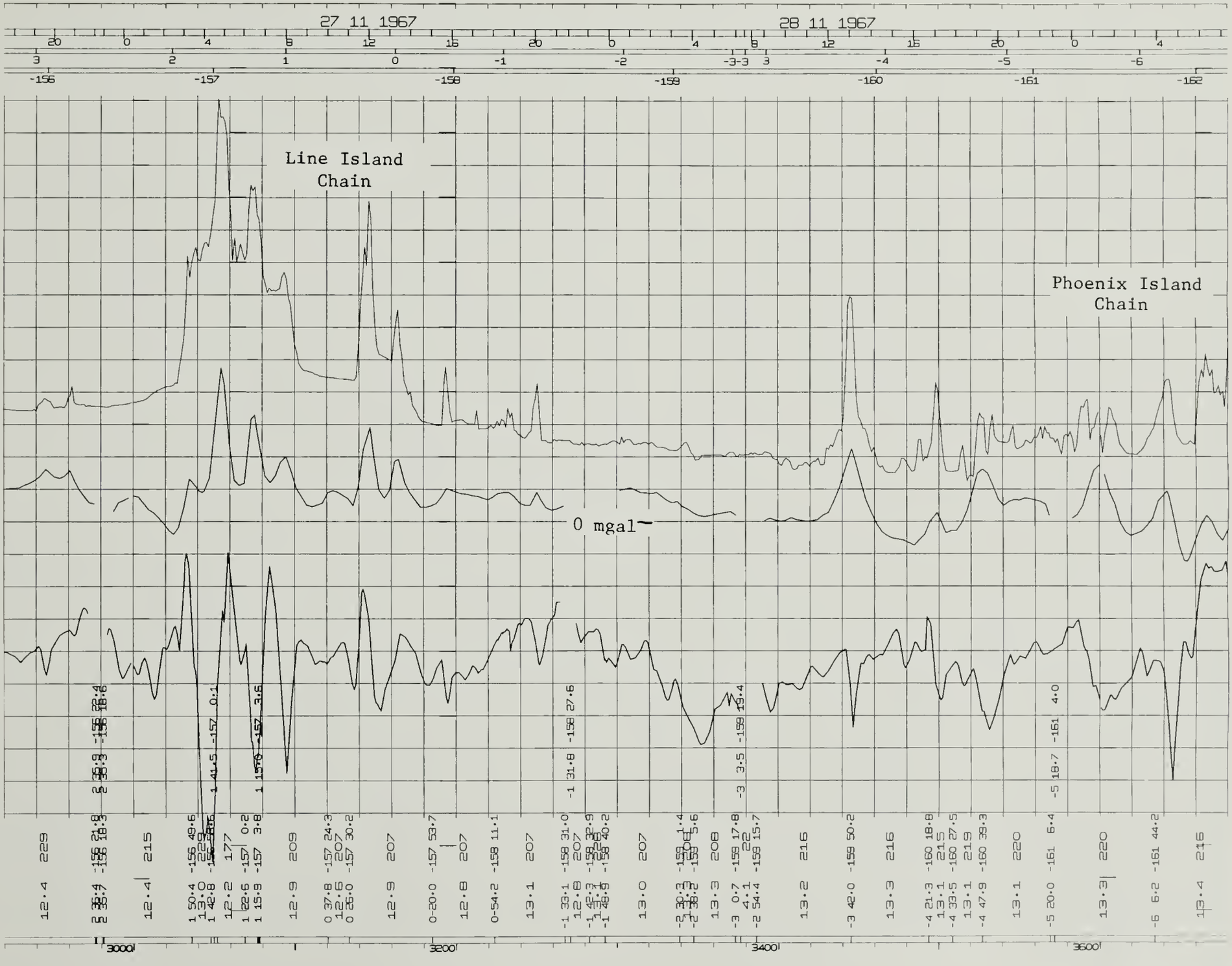

20 9 1967
M G D
SAN FRANCISCO

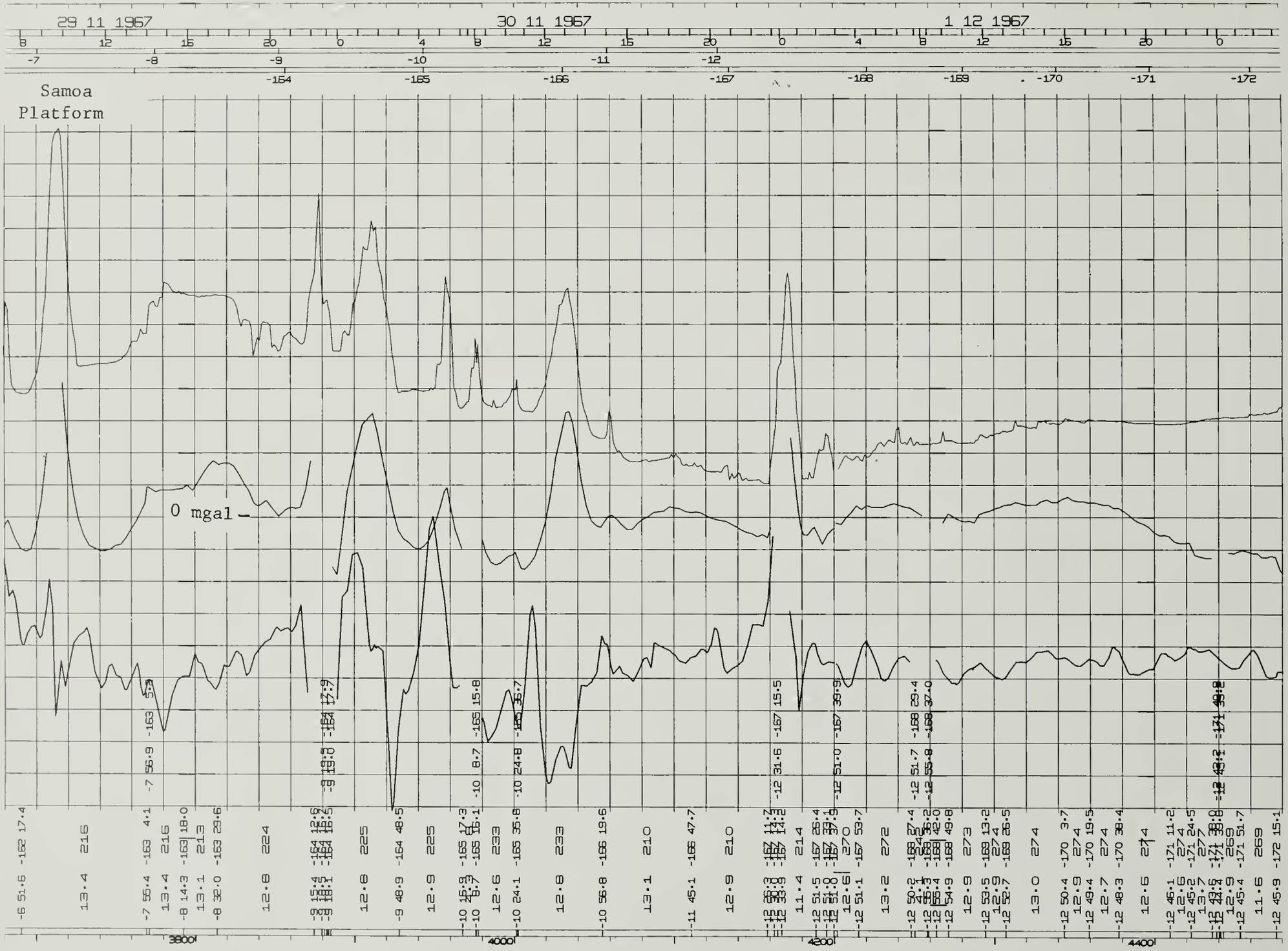

M G D
16 11 1967
17 11 1967
TOPO
FAA
MAG
Murray
Fracture Zone
SAN FRANCISCO

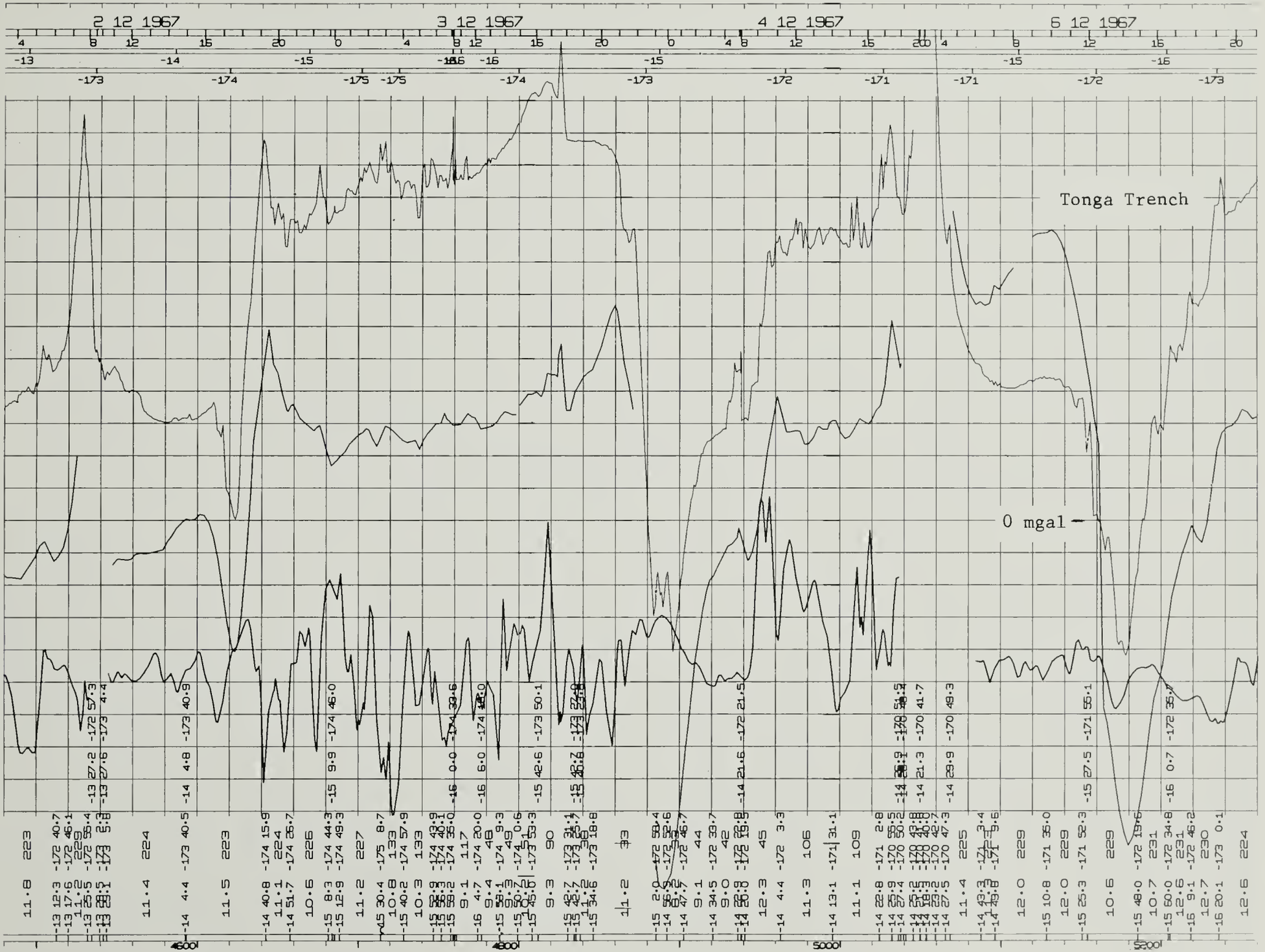

18 11 1967
19 11 1967
20 11 1967
Molokai
Fracture Zone
-0 mgal

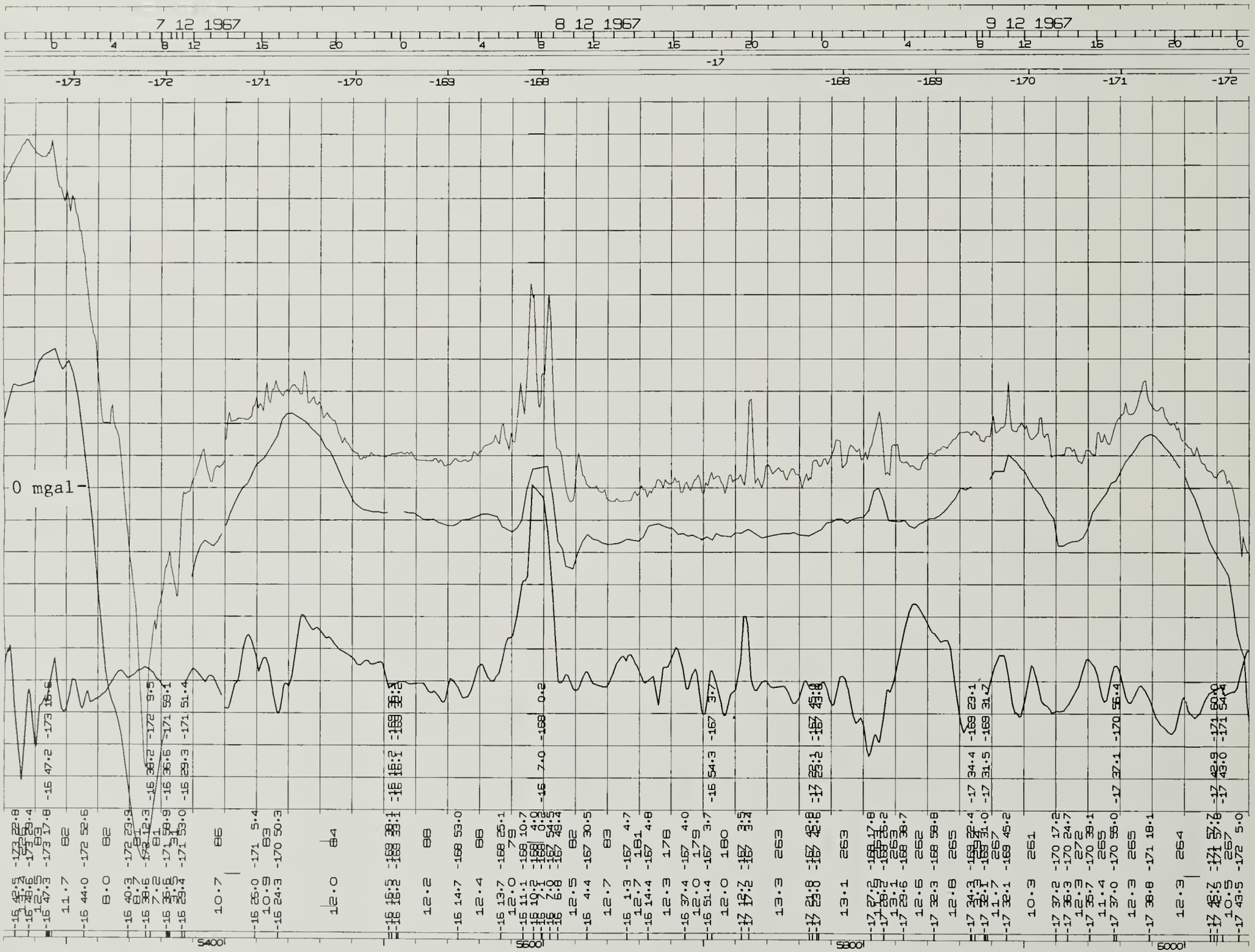

21 11 1967
22 11 1967
23 11 1967
Clarion
Fracture Zone
0 mgal


24 11 1967
25 11 1967
26 11 1967
0 mgal


27 11 1967
28 11 1967
Line Island
Chain
Phoenix Island
Chain
0 mgal
3000
3200
3400
3600


29 11 1967
30 11 1967
1 12 1967
Samoa
Platform
0 mgal


2 12 1967
3 12 1967
4 12 1967
6 12 1967
Tonga Trench
0 mgal


7 12 1967
8 12 1967
9 12 1967
0 4 8 12 16 20 0 4 8 12 16 20 0 4 8 12 16 20 0
-17
-173 -172 -171 -170 -169 -168 -168 -169 -170 -171 -172
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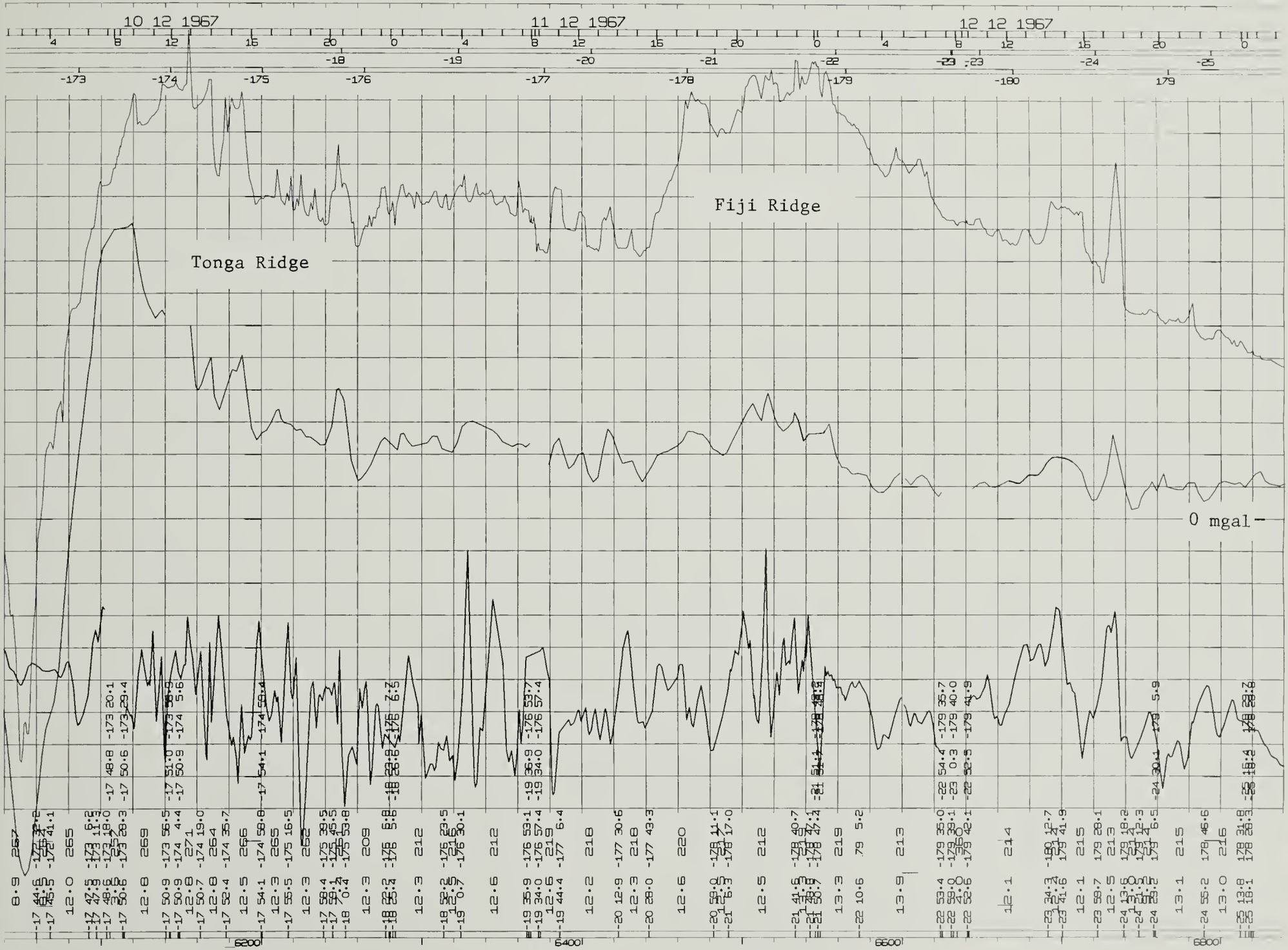
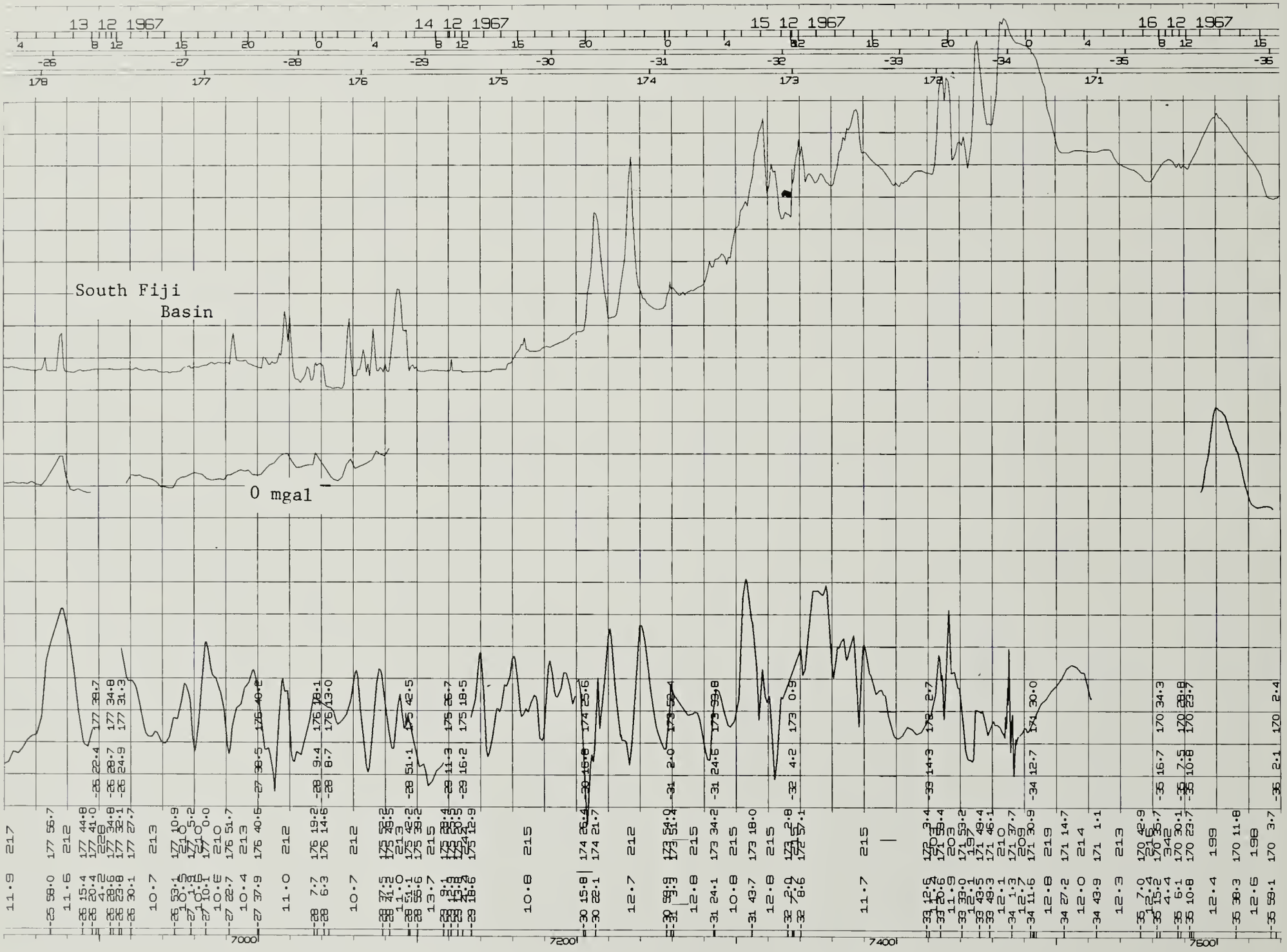
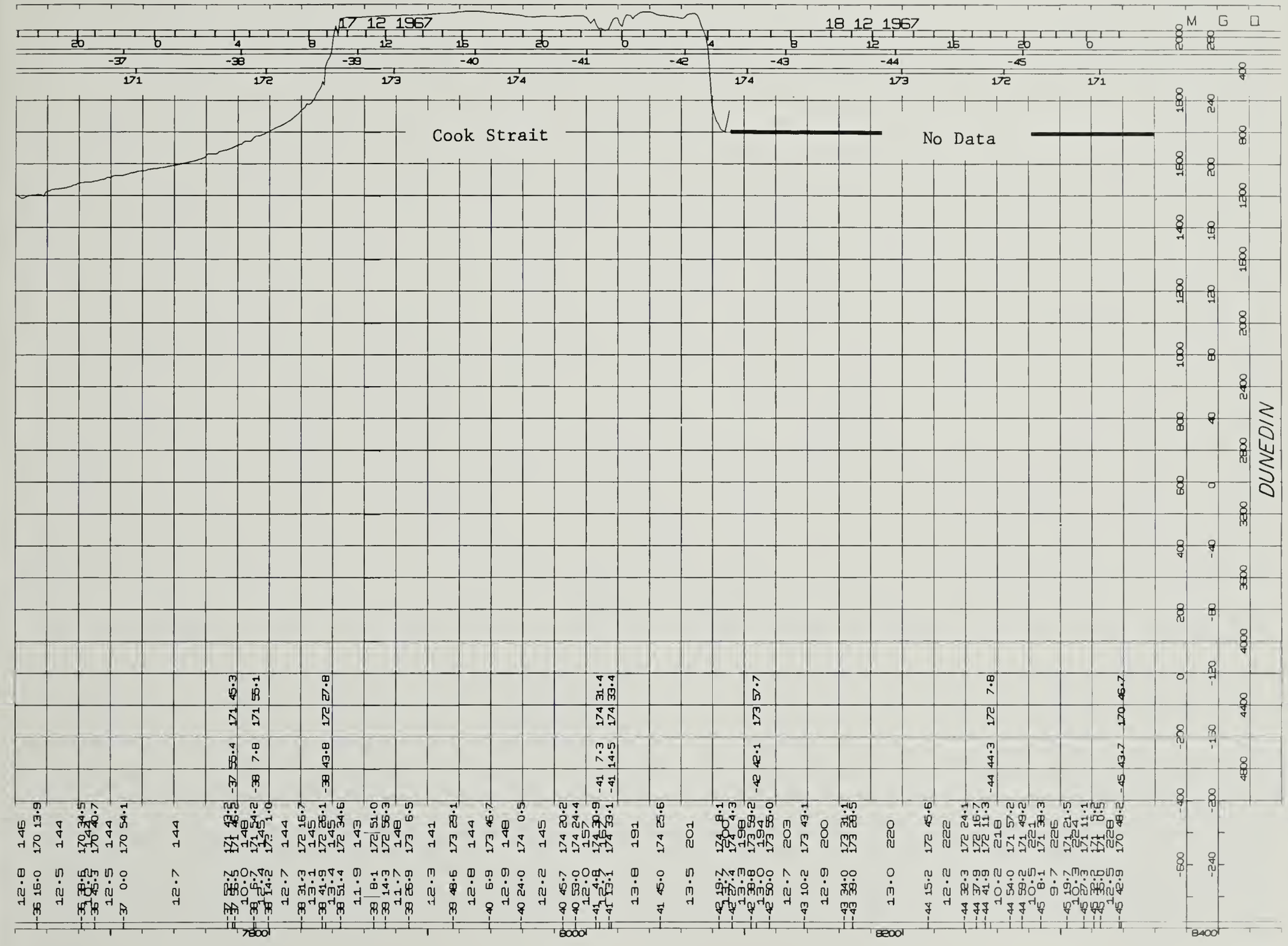
5400
5600
5800
5000


10 12 1967
11 12 1967
12 12 1967
Tonga Ridge
Fiji Ridge
0 mgal


13 12 1967
14 12 1967
15 12 1967
16 12 1967
South Fiji
Basin
0 mgal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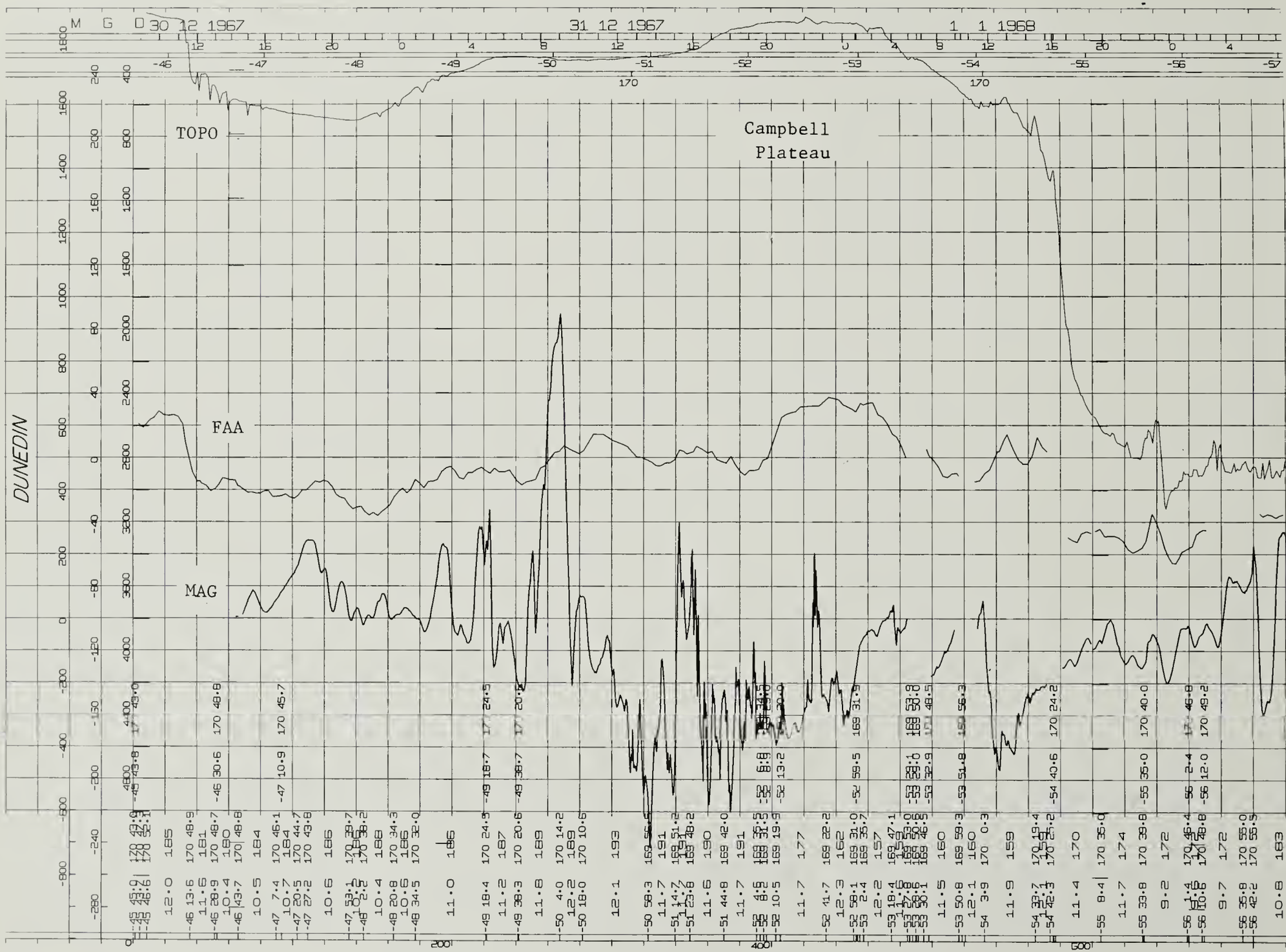
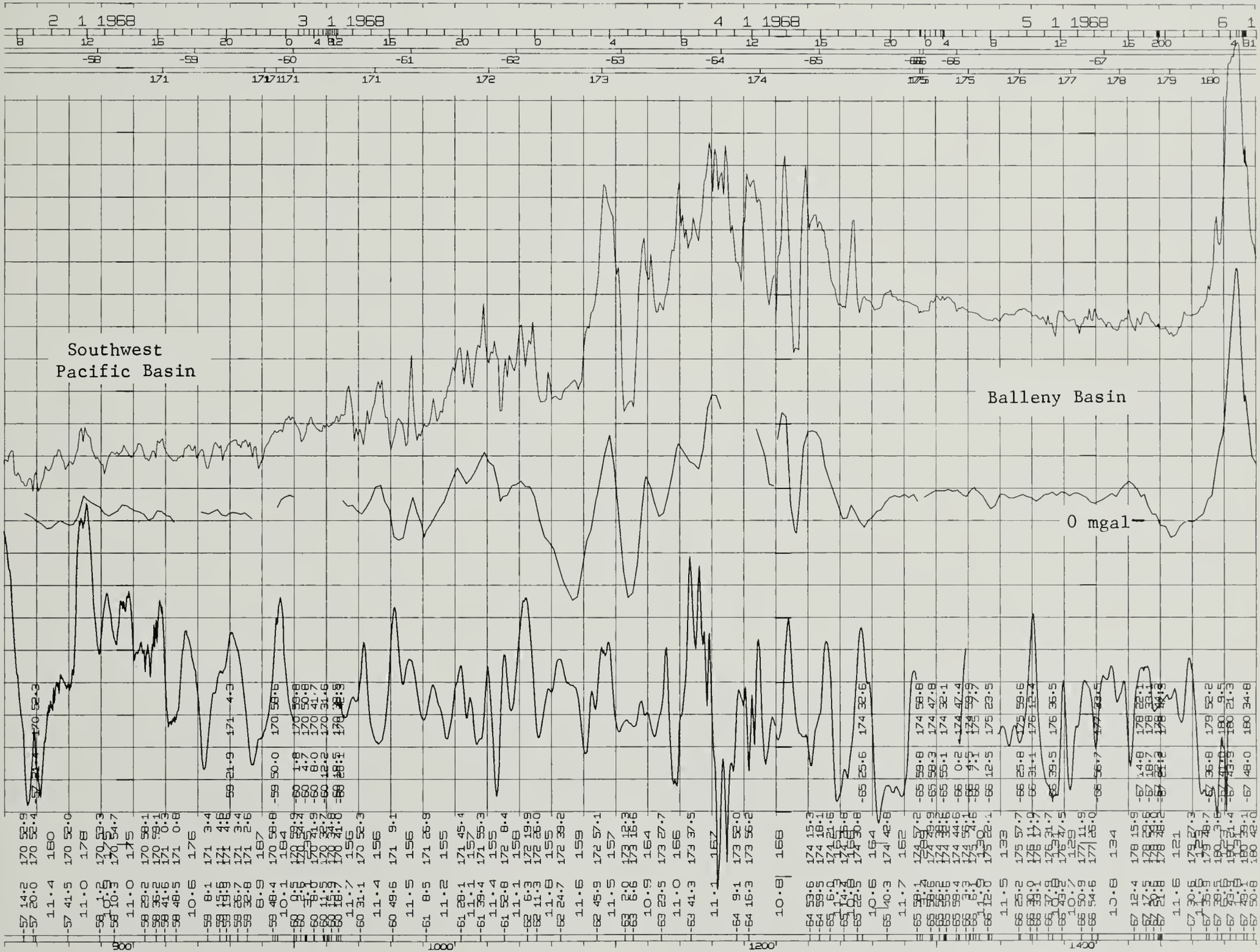
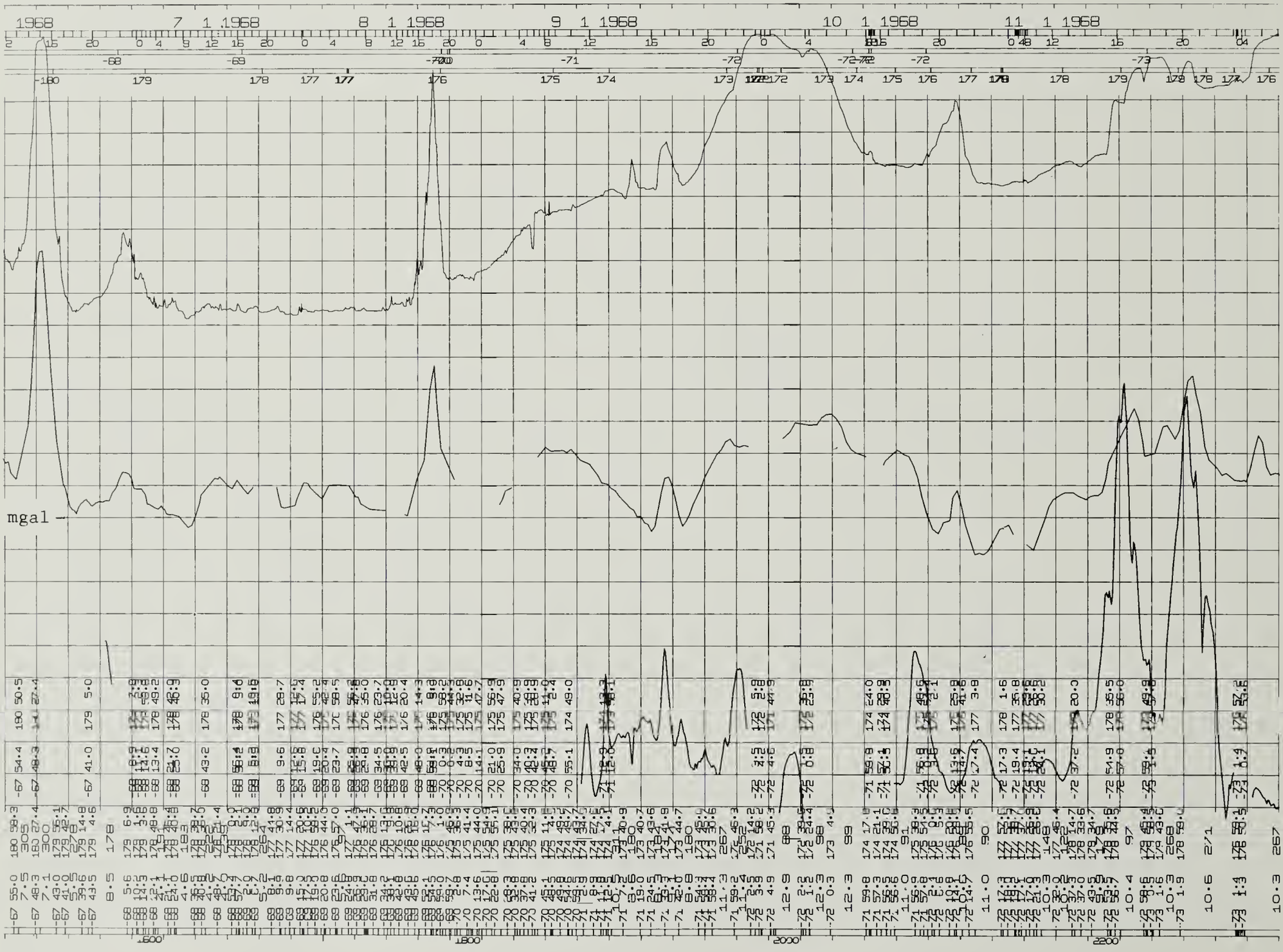
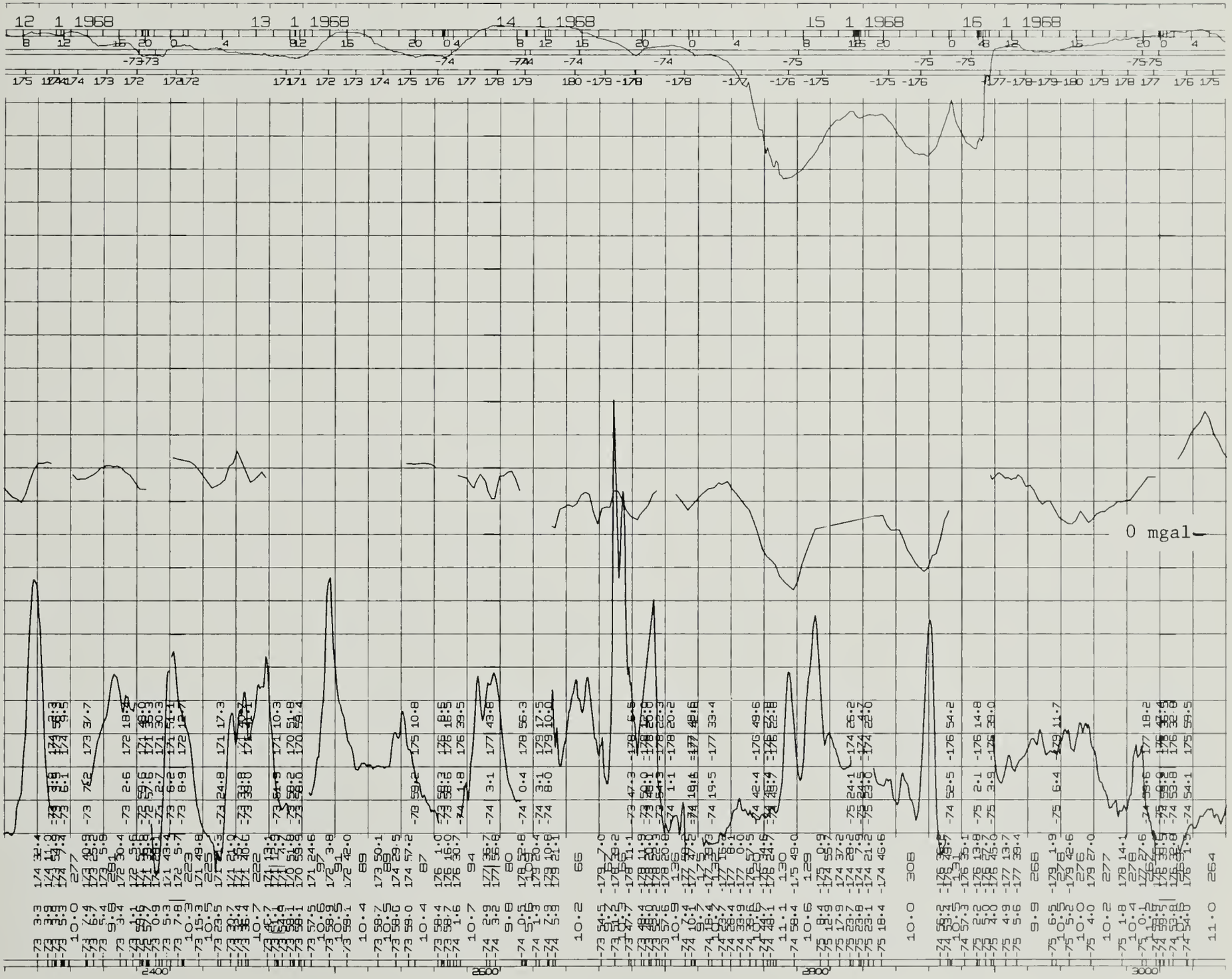
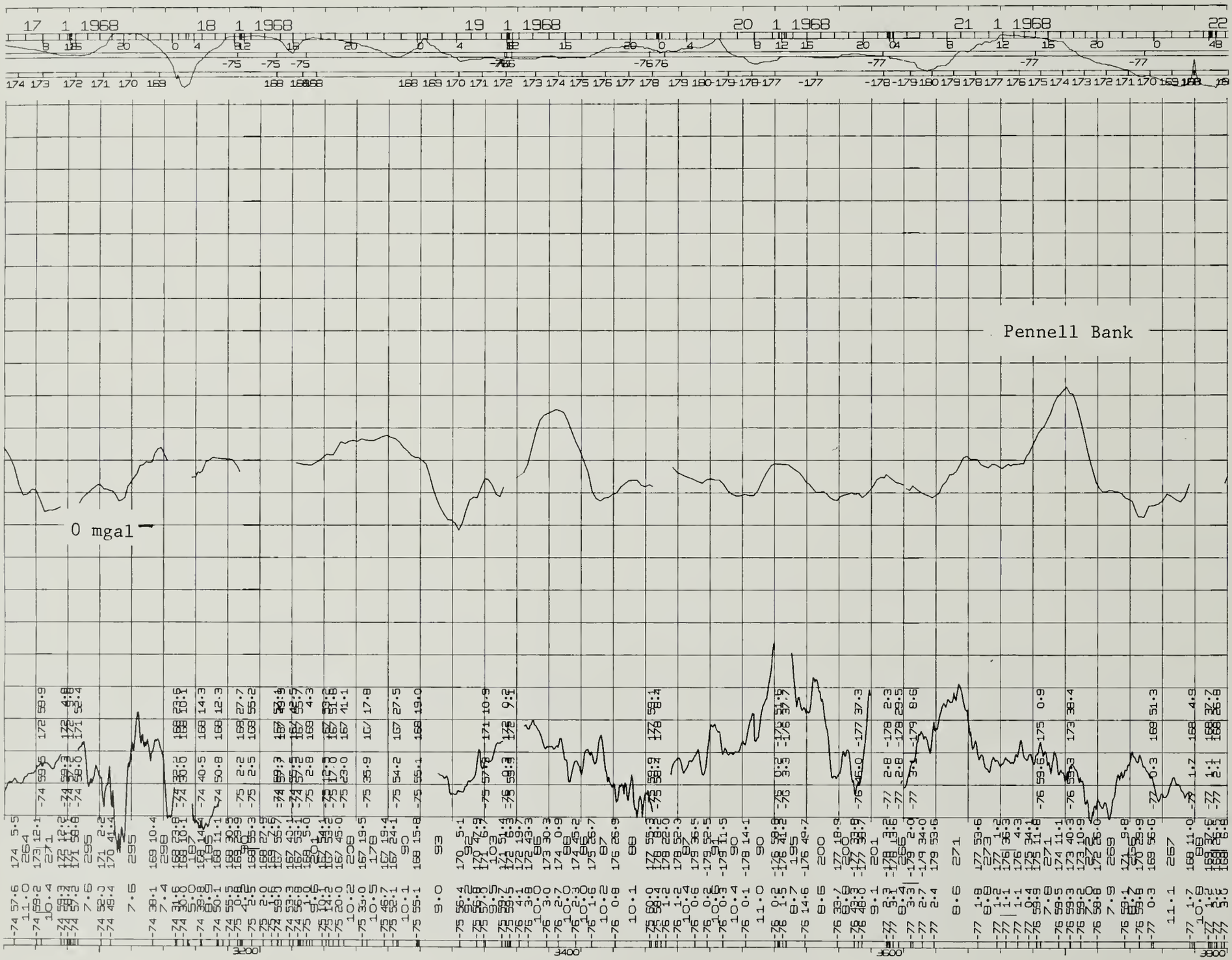
18 12 1967
Cook Strait
No Data
DUNEDIN


M G D 30 12 1967
31 12 1967
1 1 1968
TOPO
Campbell
Plateau
FAA
MAG
DUNEDIN


2 1 1968
3 1 1968
4 1 1968
5 1 1968
6 1
Southwest
Pacific Basin
Balleny Basin
0 mgal


1968
7 1 1968
8 1 1968
9 1 1968
10 1 1968
11 1 1968
0 mgal


12 1 1968
13 1 1968
14 1 1968
15 1 1968
16 1 1968
0 mgal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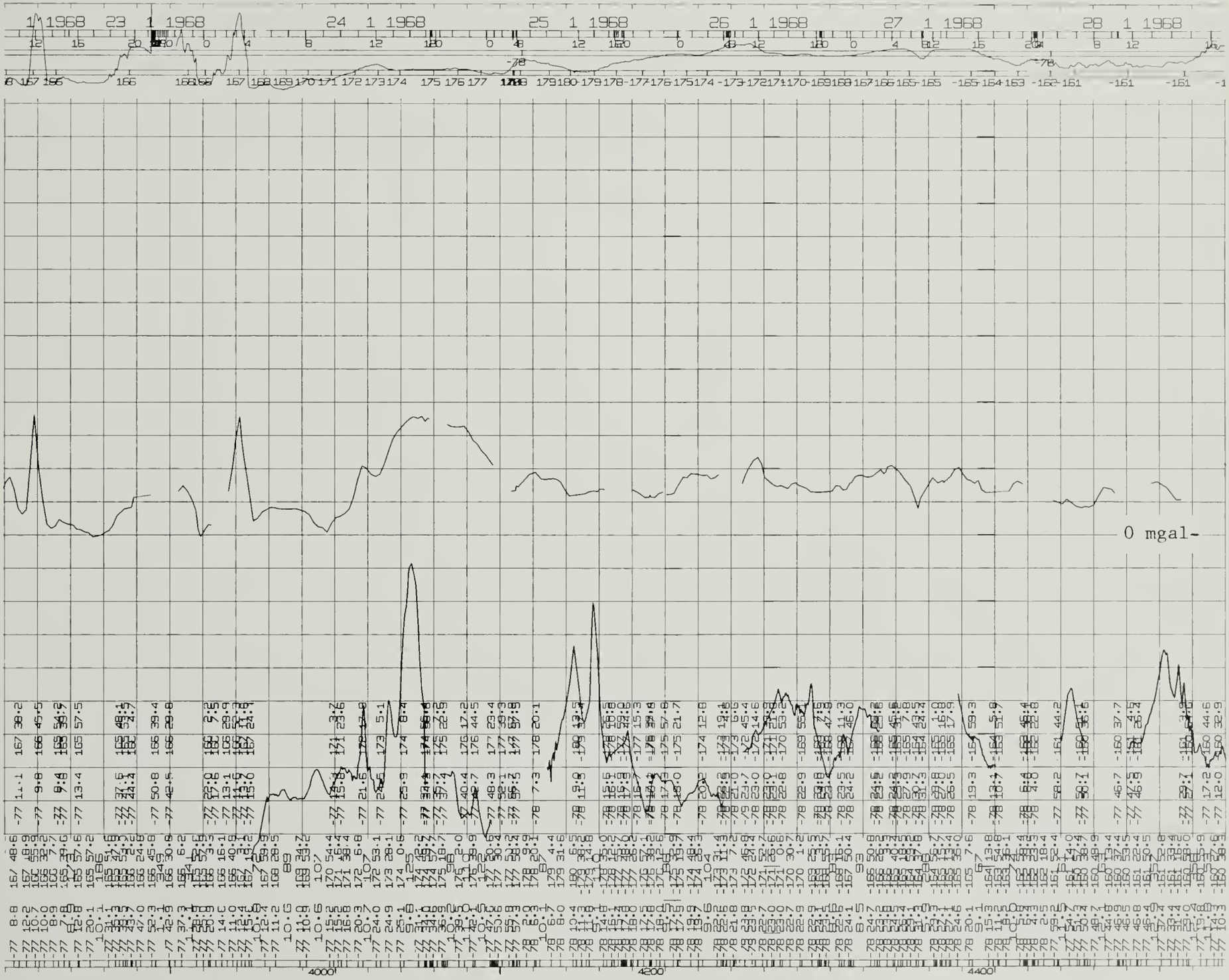
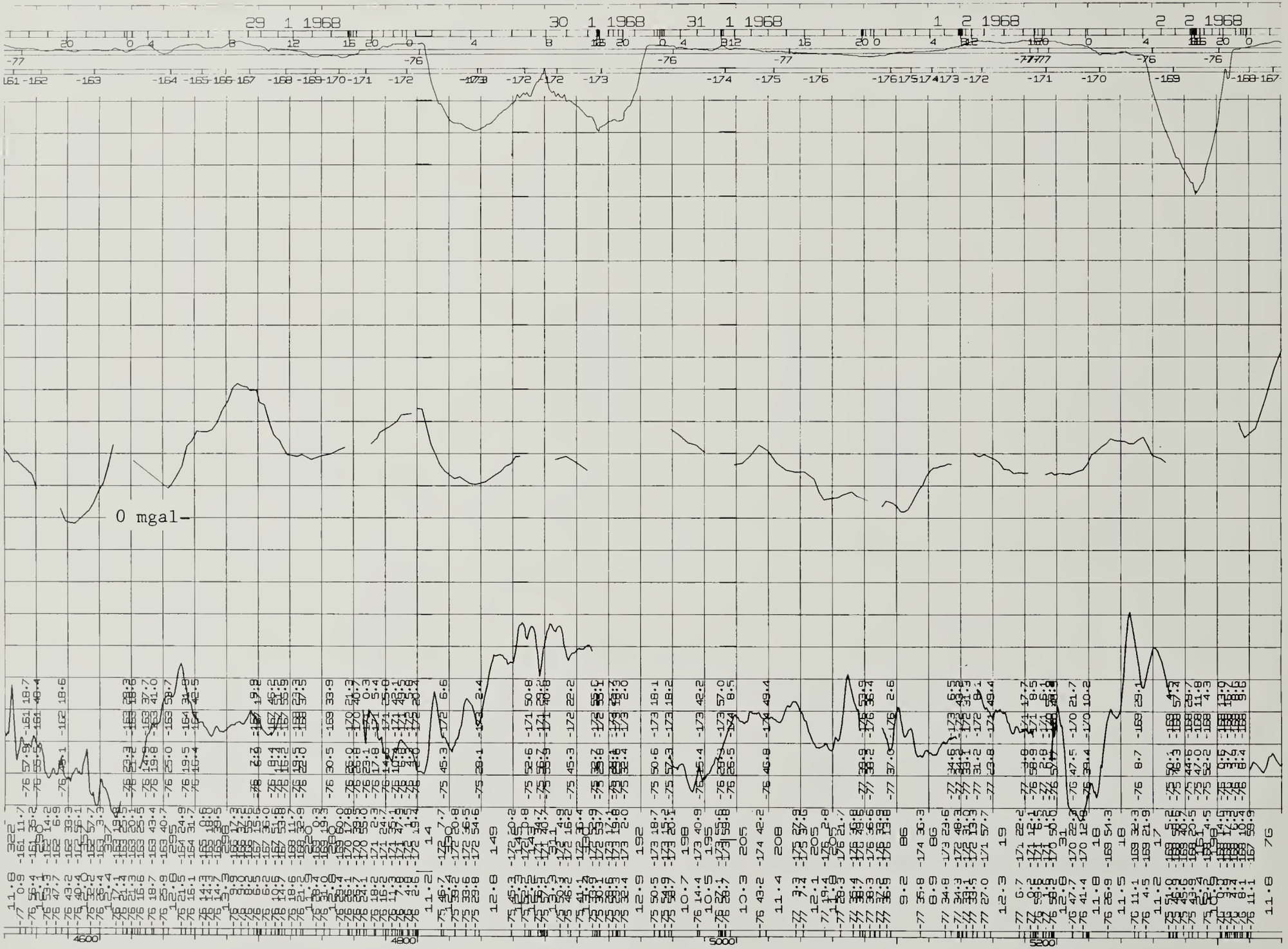
18 1 1968
19 1 1968
20 1 1968
21 1 1968
Pennell Bank
0 mgal


1 1968 23
1 1968 24
1 1968 25
1 1968 26
1 1968 27
1 1968 28
0 mgal
4000
4200
4400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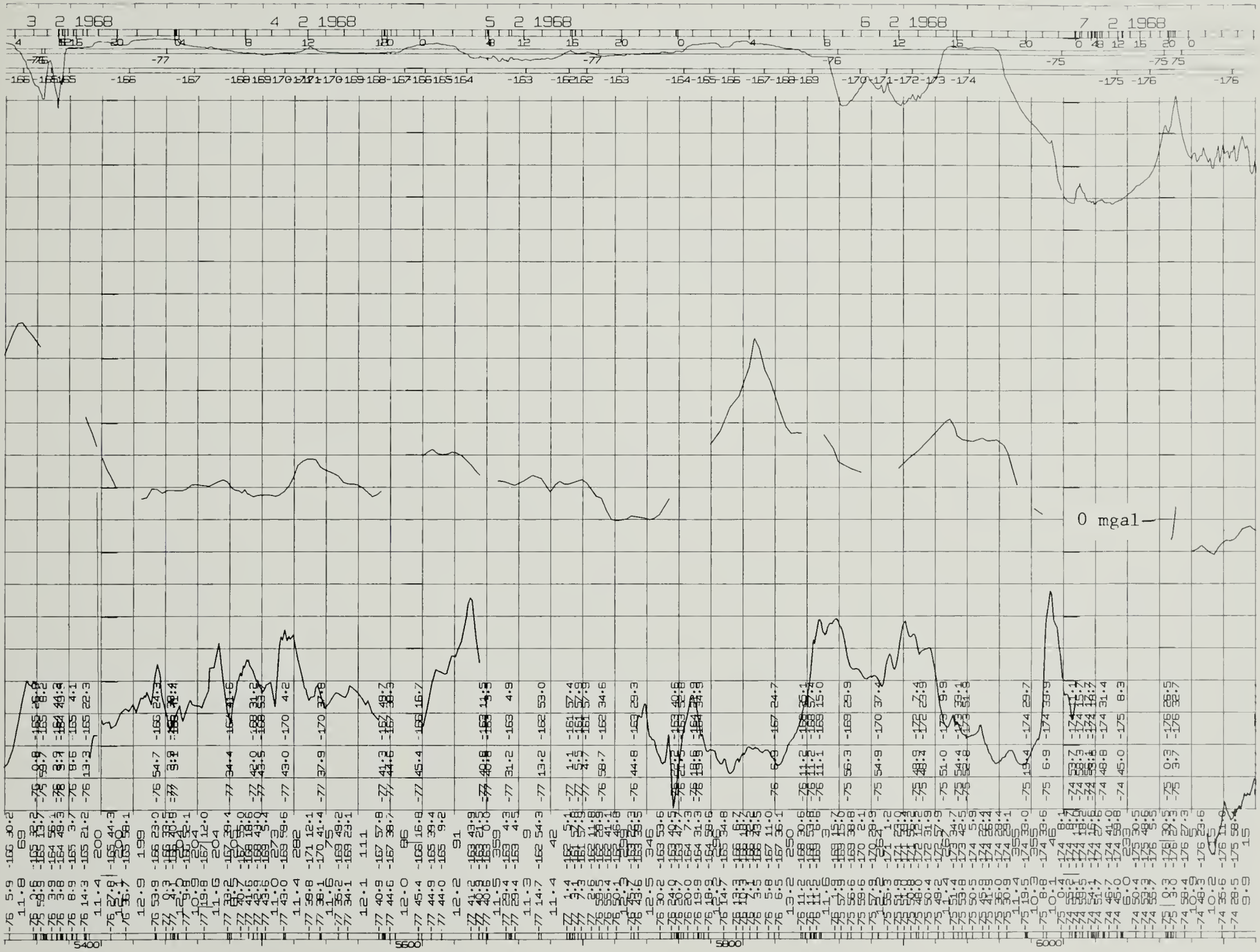
30 1 1968
31 1 1968
1 2 1968
2 2 1968
0 mgal


3 2 1968
4 2 1968
5 2 1968
6 2 1968
7 2 1968
0 mgal
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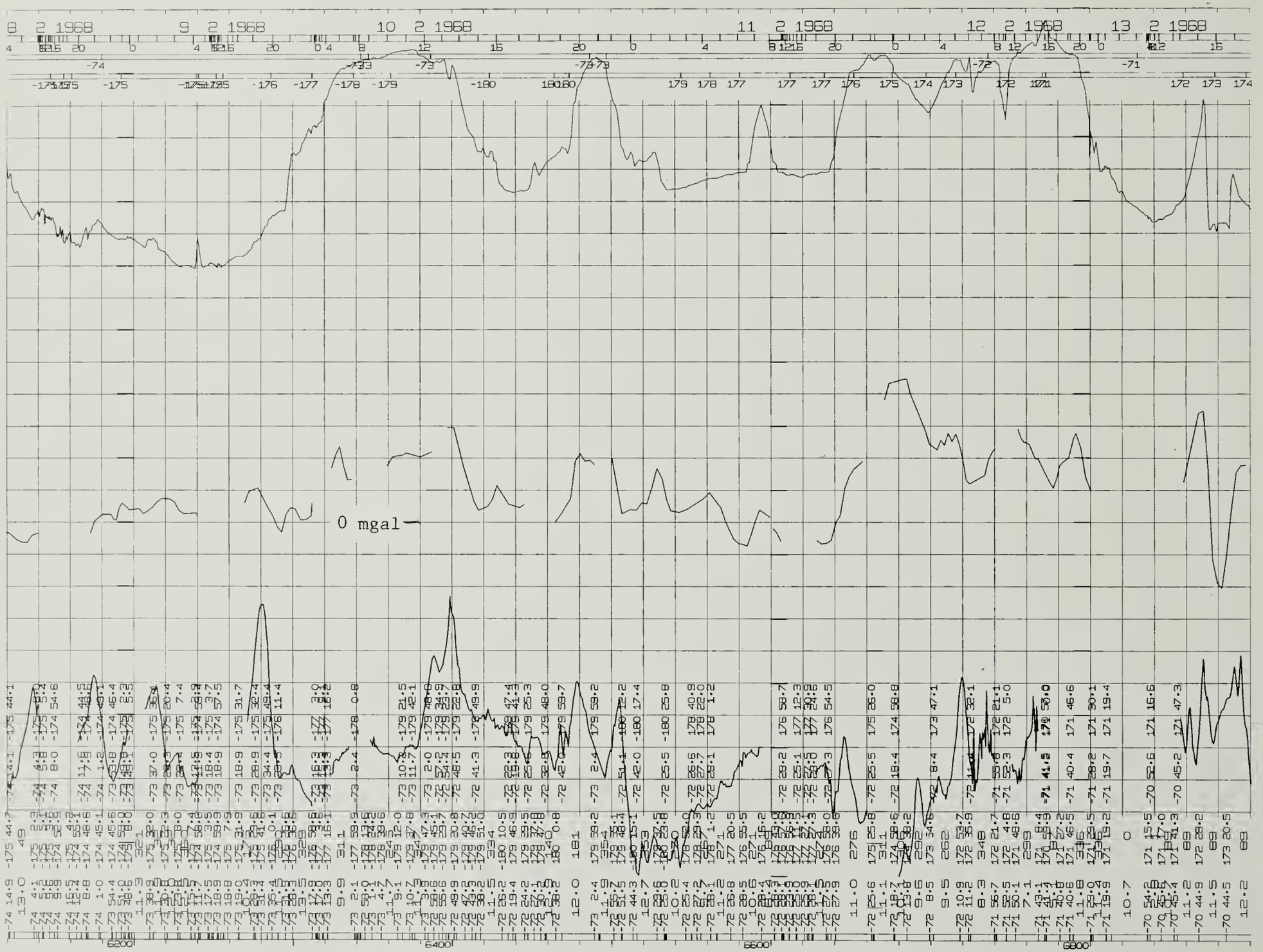
5500
5800
6000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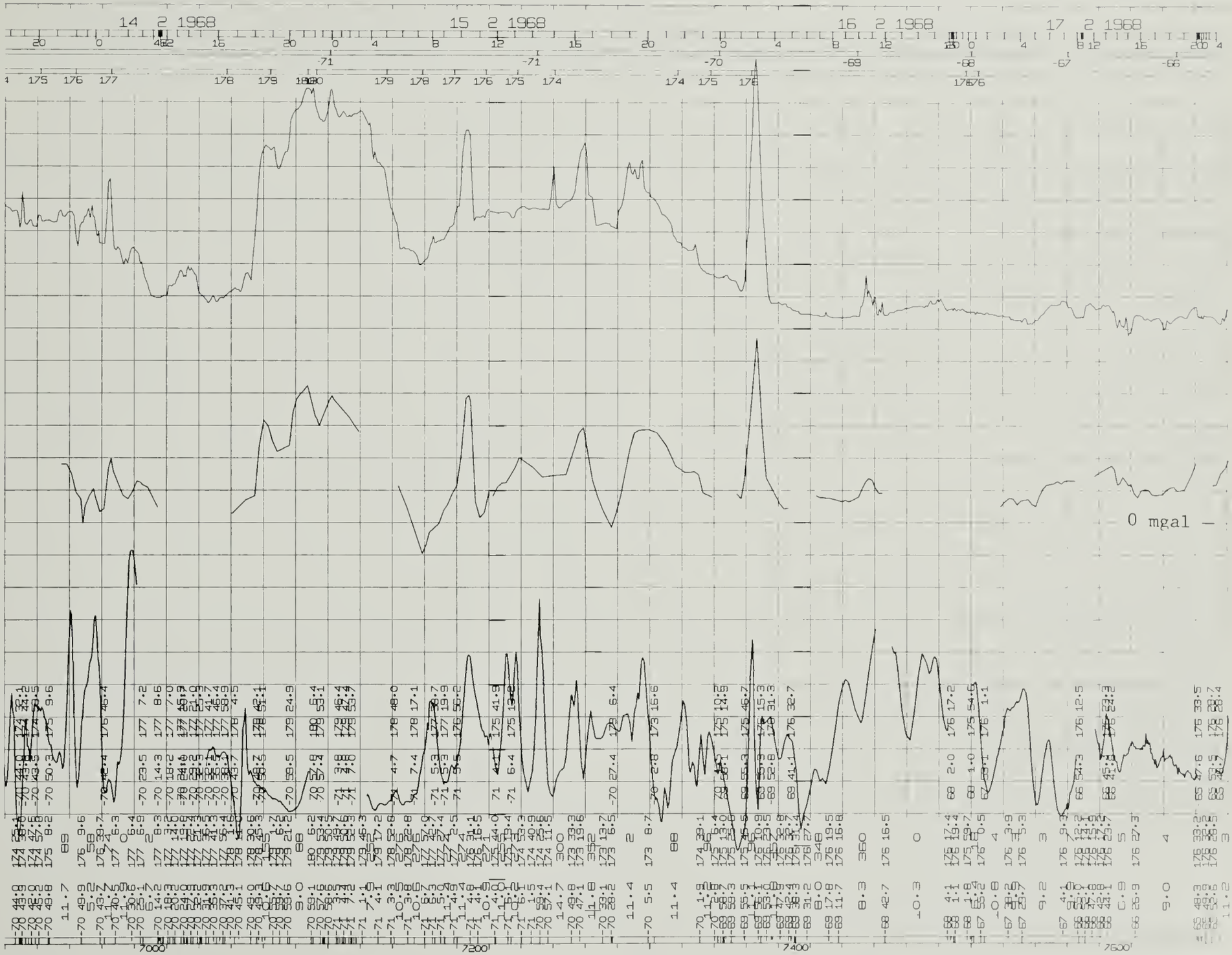
9 2 1968
10 2 1968
11 2 1968
12 2 1968
13 2 1968
0 mgal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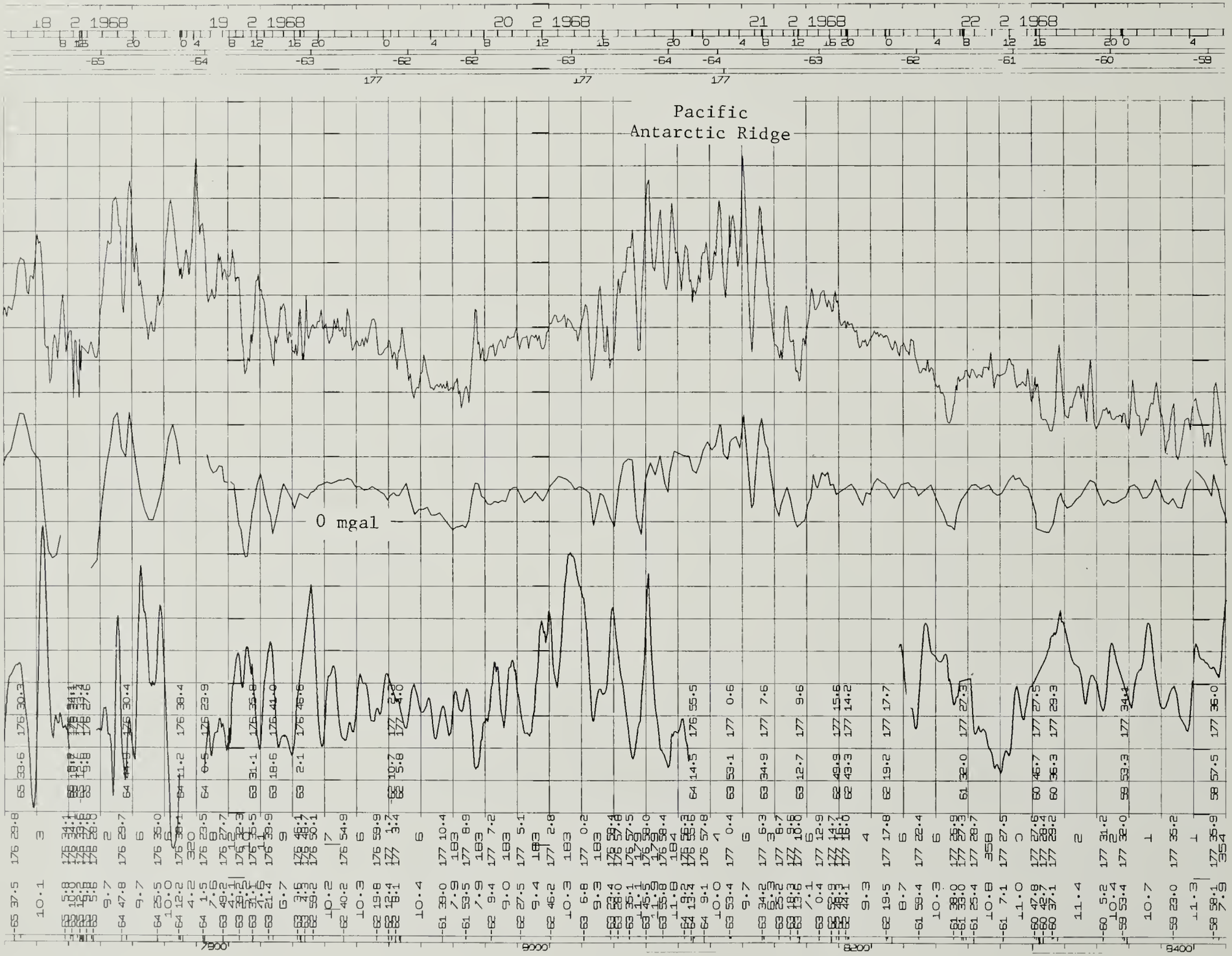
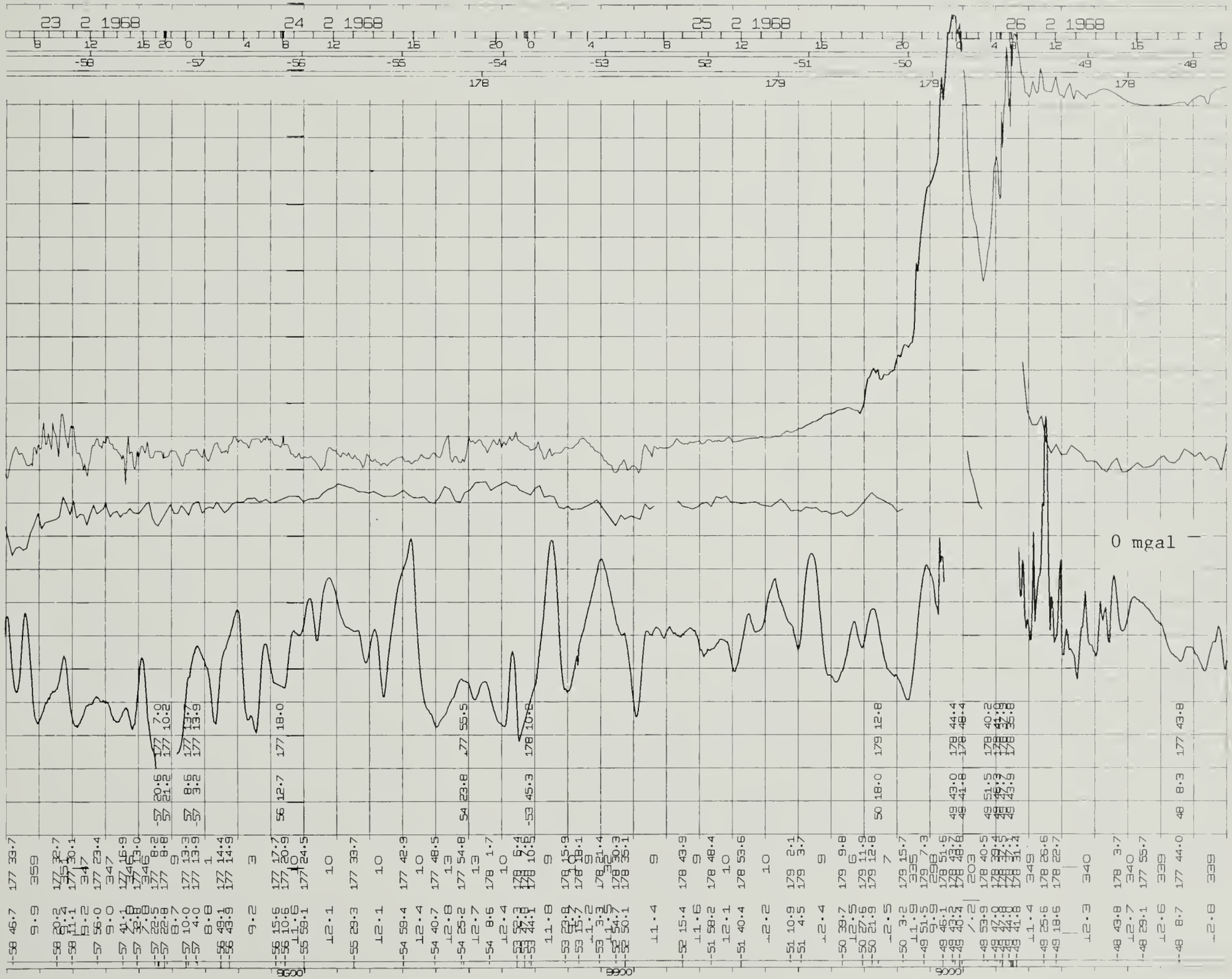
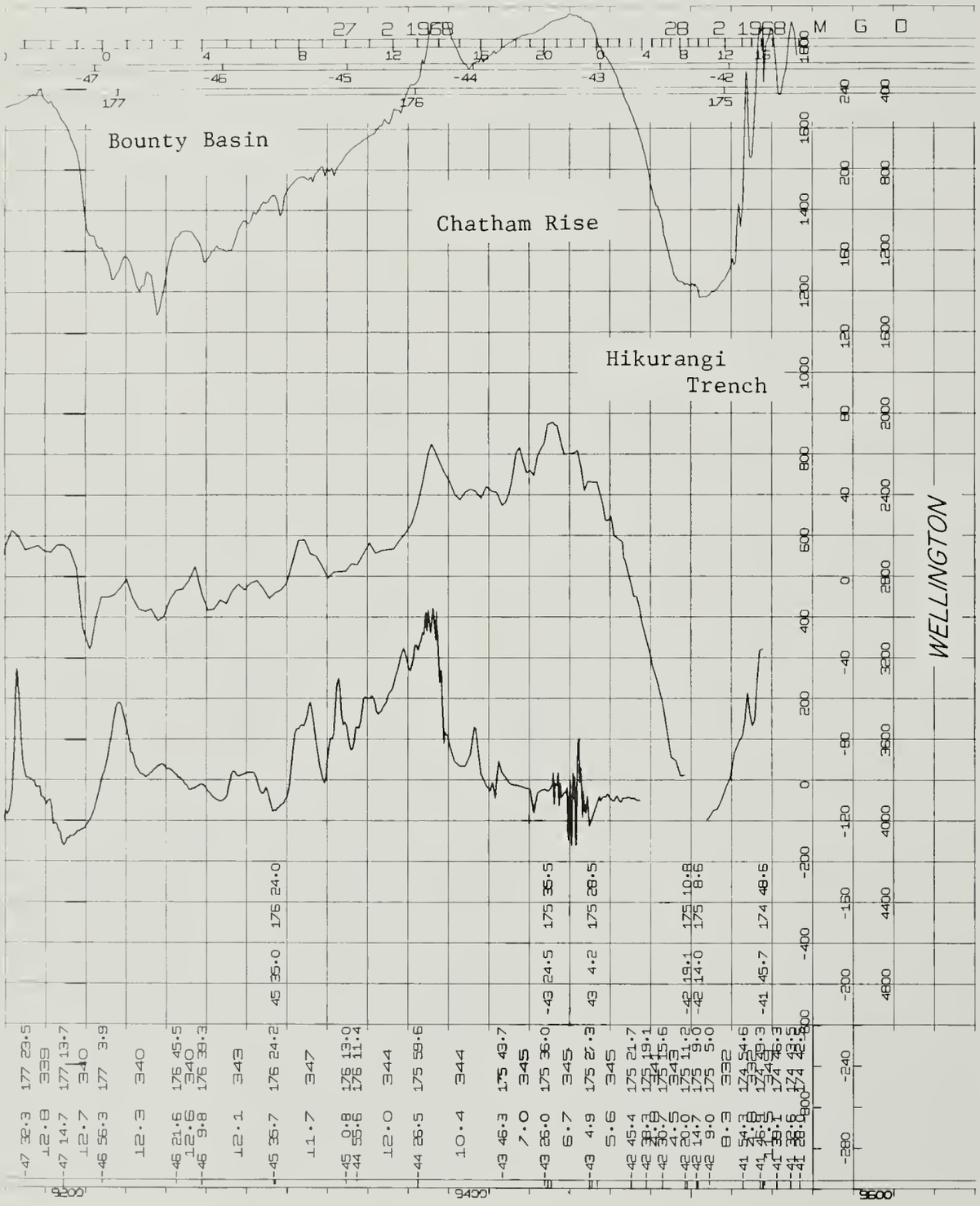
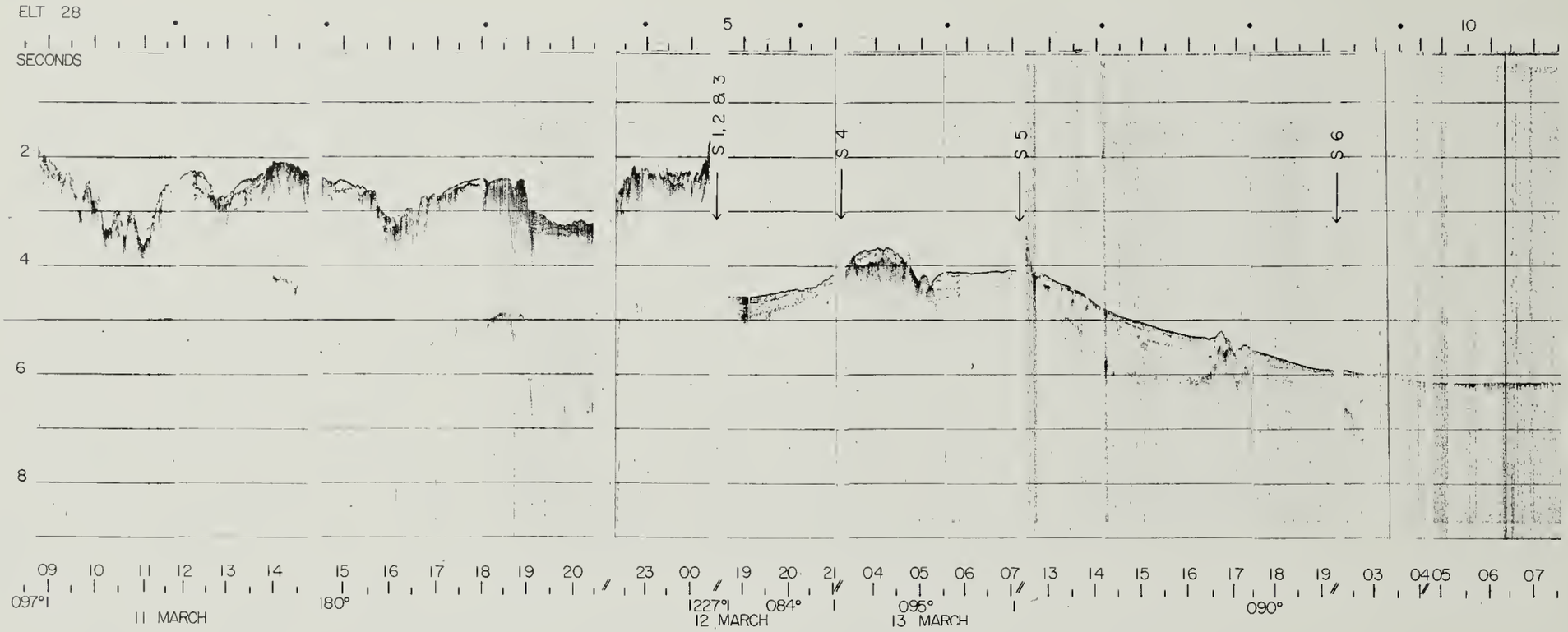
15 2 1968
16 2 1968
17 2 1968
0 mgal

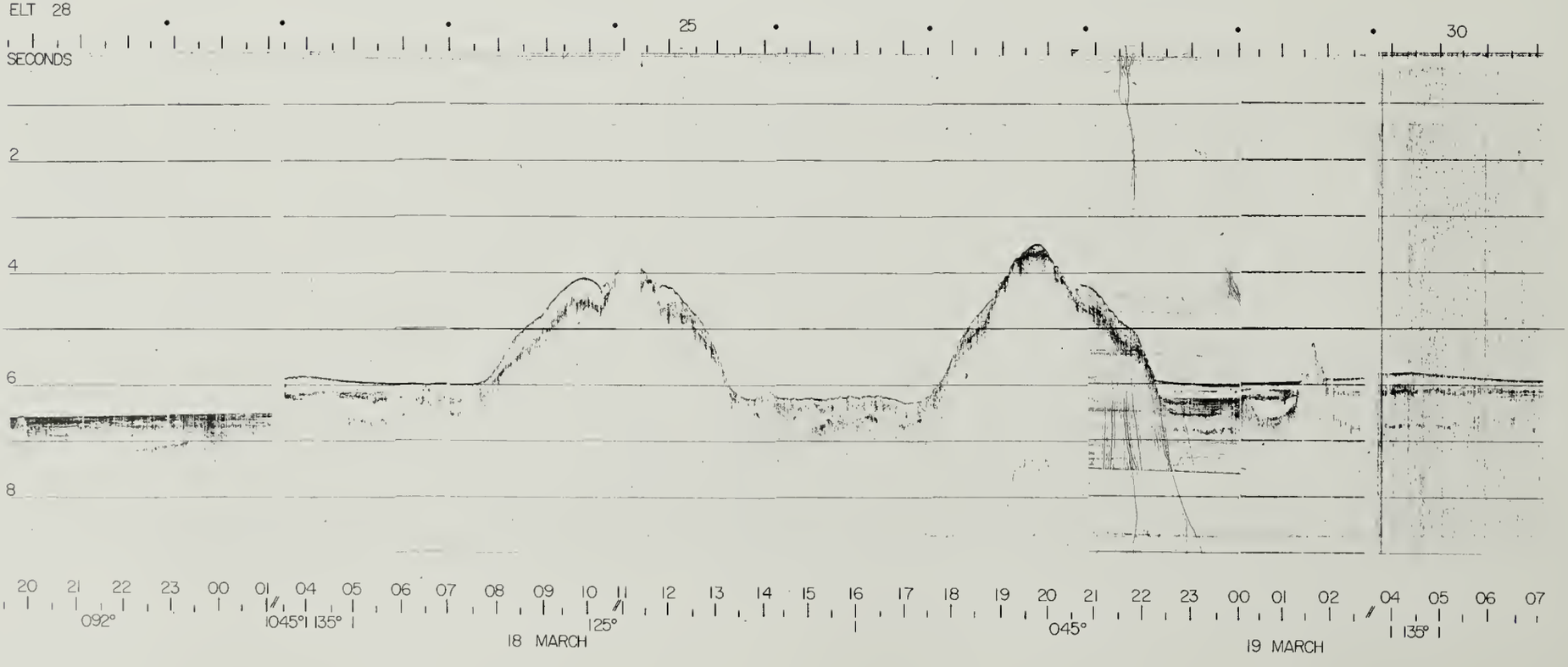

18 2 1968
19 2 1968
20 2 1968
21 2 1968
22 2 1968
Pacific
Antarctic Ridge
0 mgal


23 2 1968
24 2 1968
25 2 1968
26 2 1968
0 mgal


Bounty Basin
Chatham Rise
Hikurangi
Trench
WELLINGTON
27 2 1968
28 2 1968
M G D

PART C - SEISMIC REFLECTION PROFILES


ELT 28
SECONDS
5
10
2
4
6
8
S 1, 2 & 3
S 4
S 5
S 6
09 10 11 12 13 14 15 16 17 18 19 20 23 00 19 20 21 04 05 06 07 13 14 15 16 17 18 19 03 04 05 06 07
097°
180°
227°
084°
095°
090°
11 MARCH
12 MARCH
13 MARCH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125°
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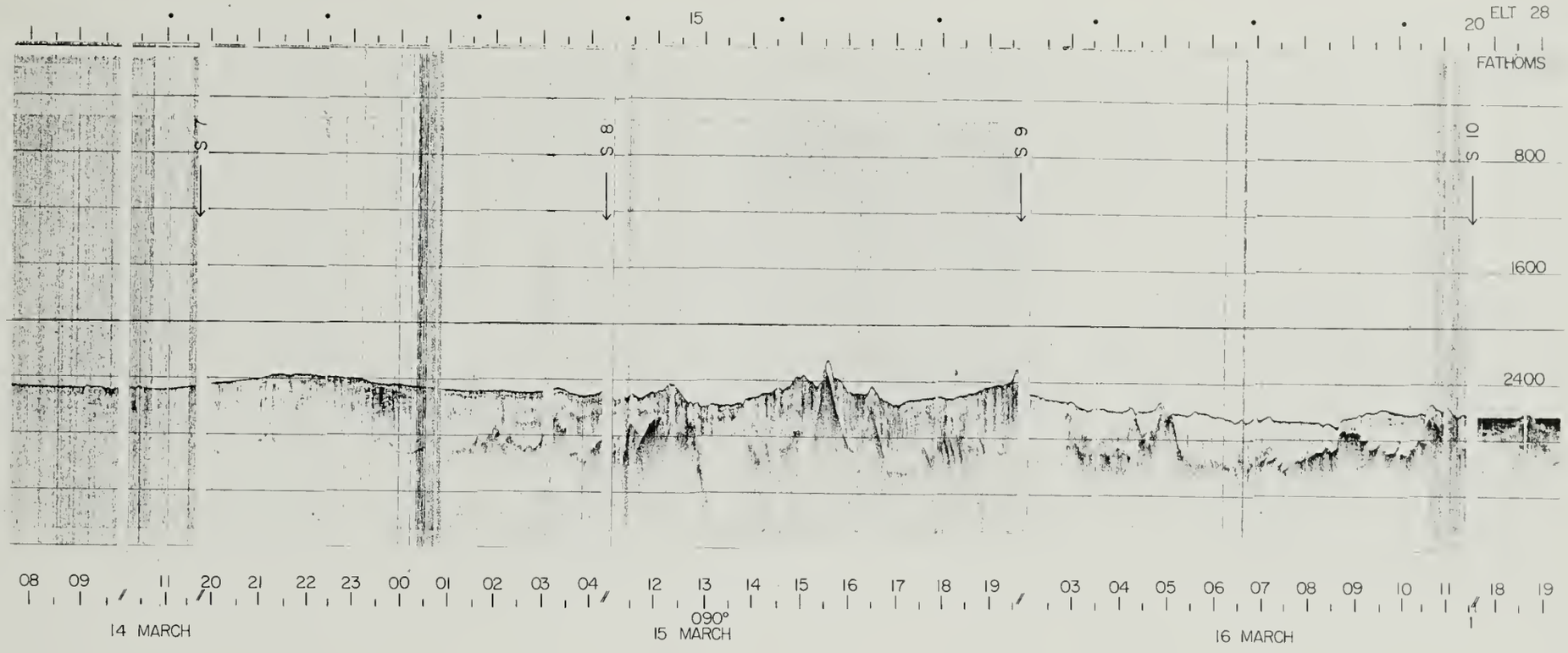
19 MARCH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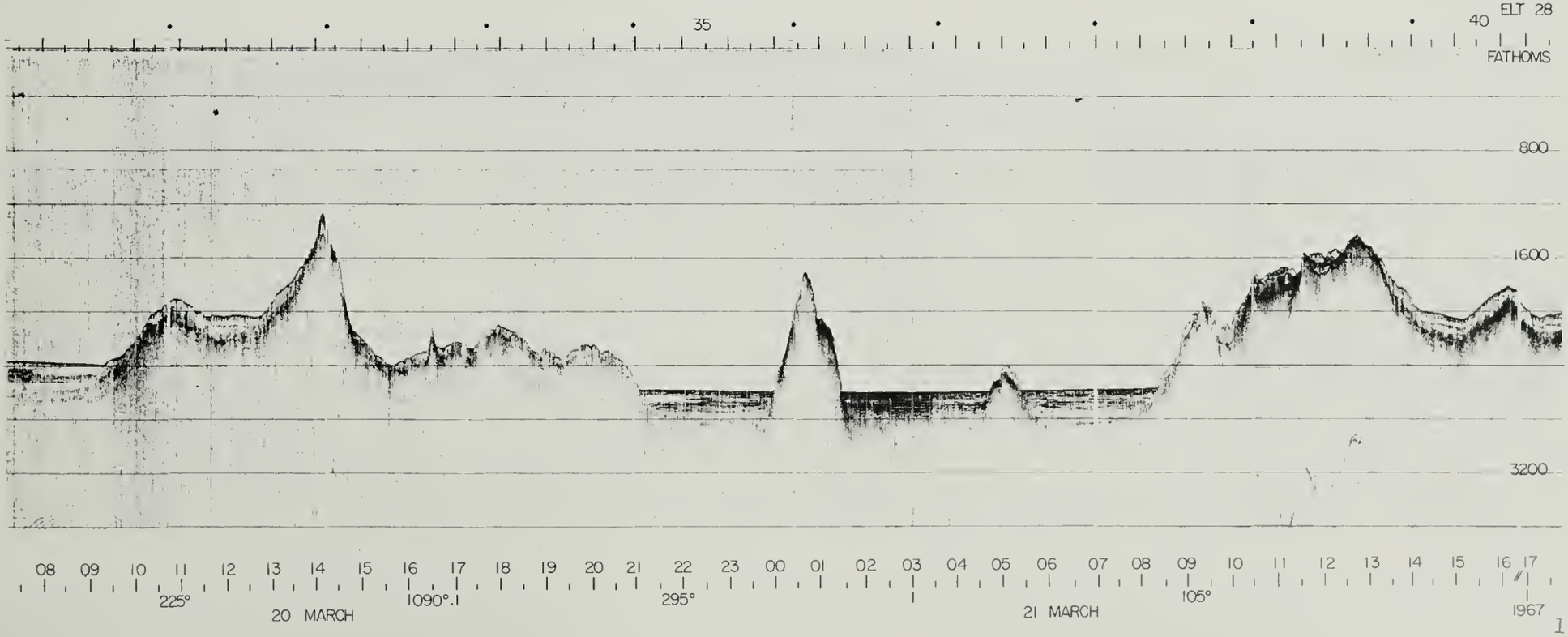
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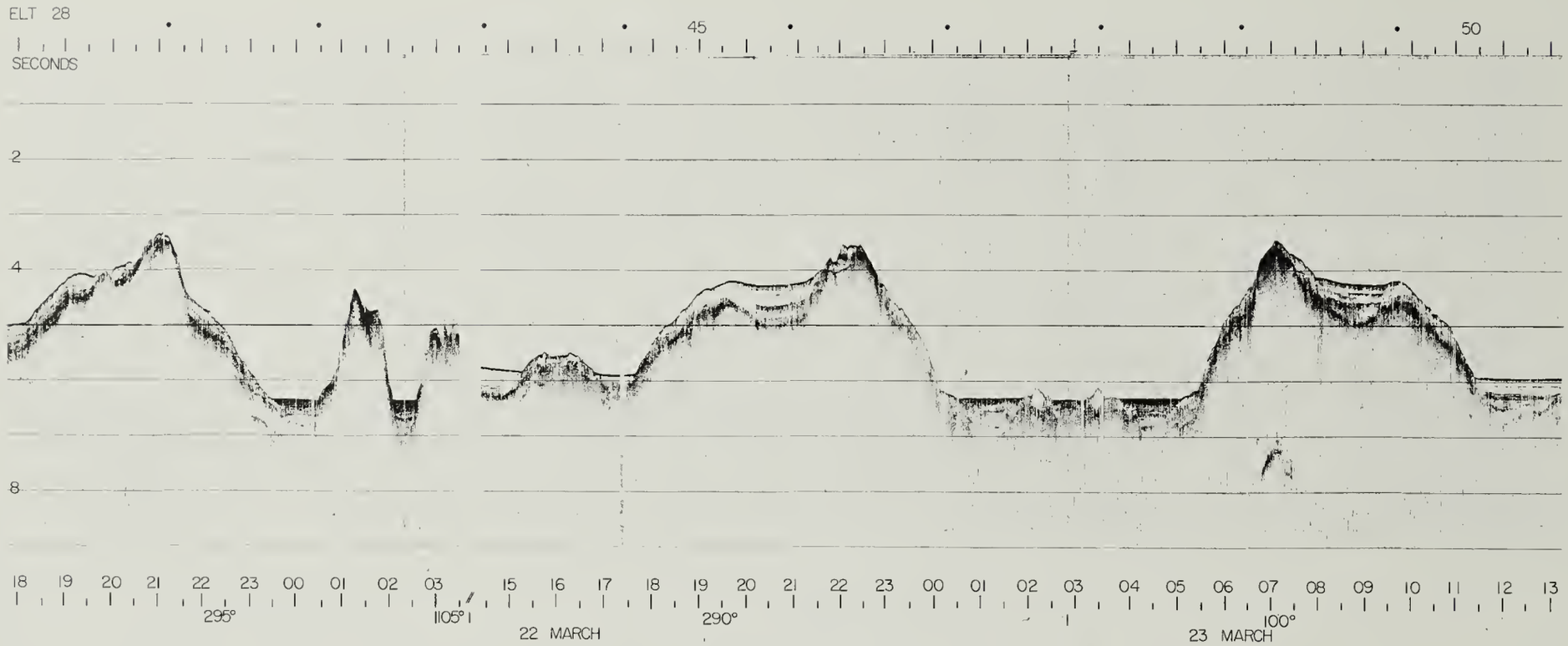
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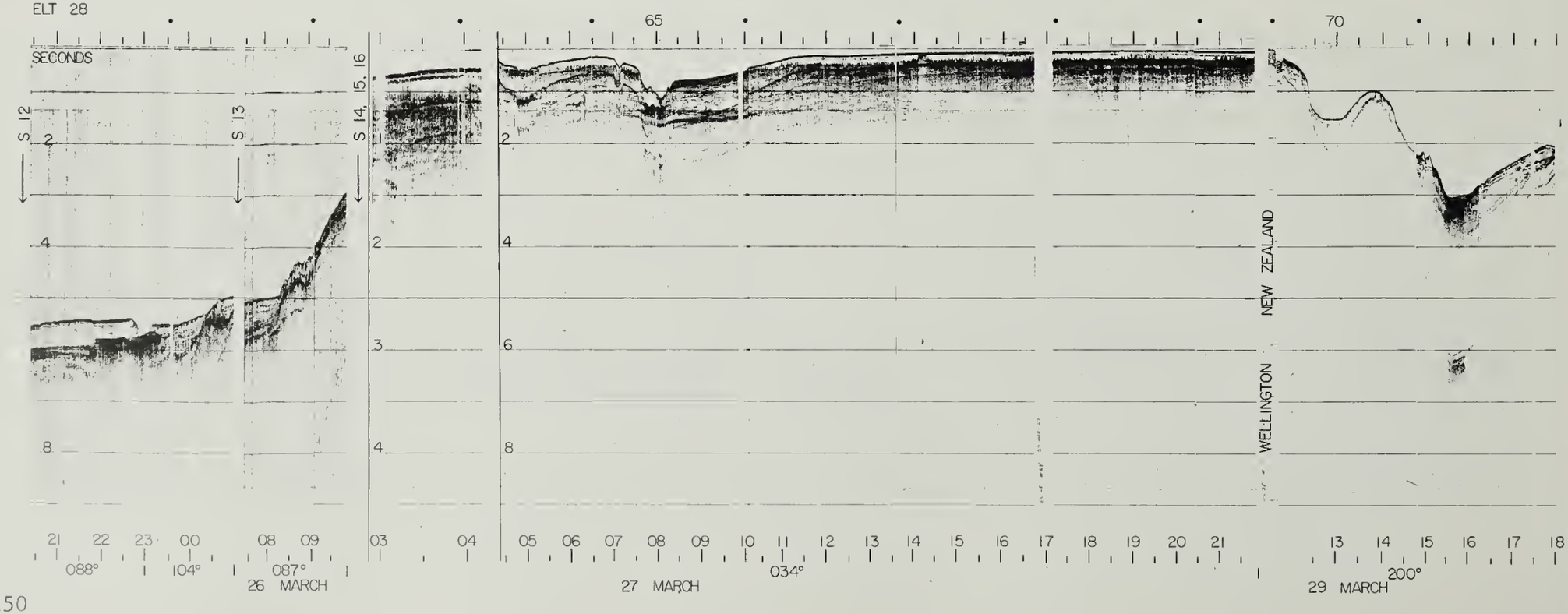
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NEW ZEALAND
WELLINGTON
21 22 23 00 08 09 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 13 14 15 16 17 18
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087°
034°
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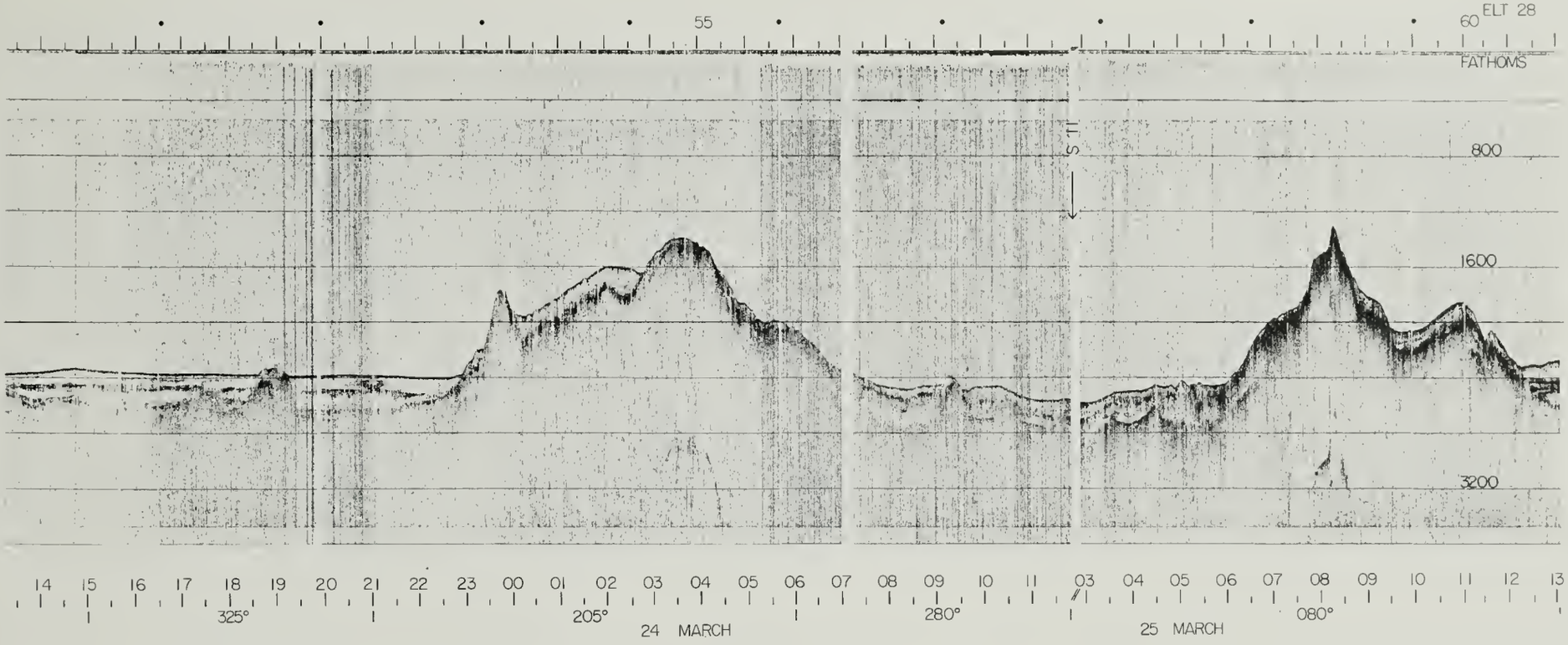
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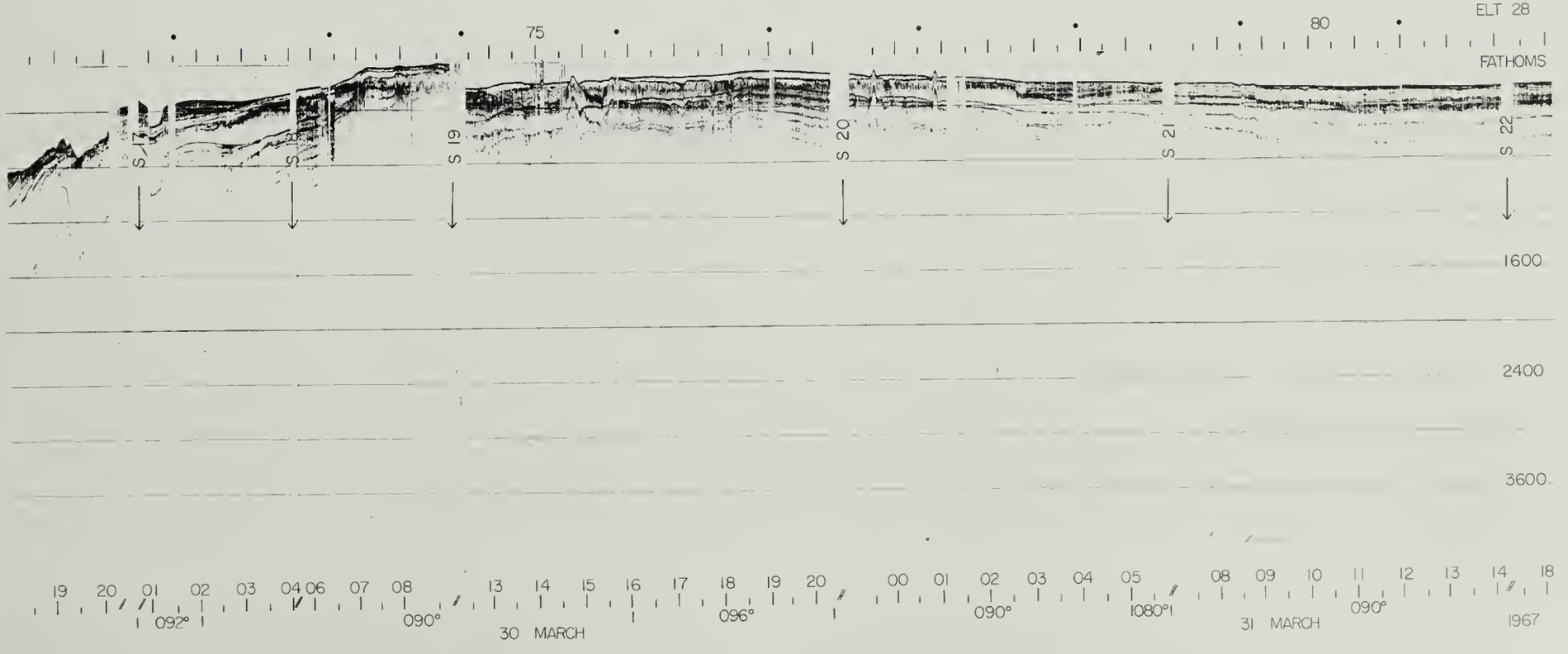
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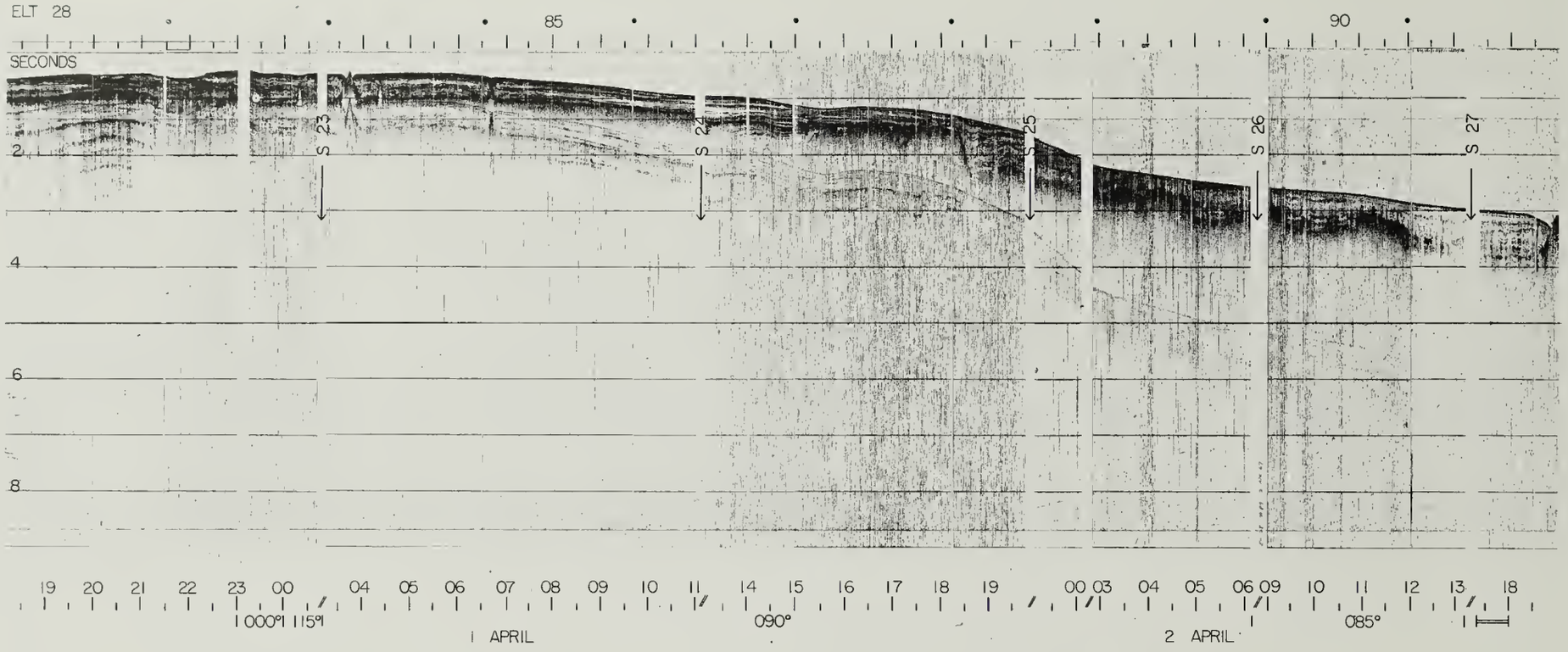
31 MARCH
1967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085°
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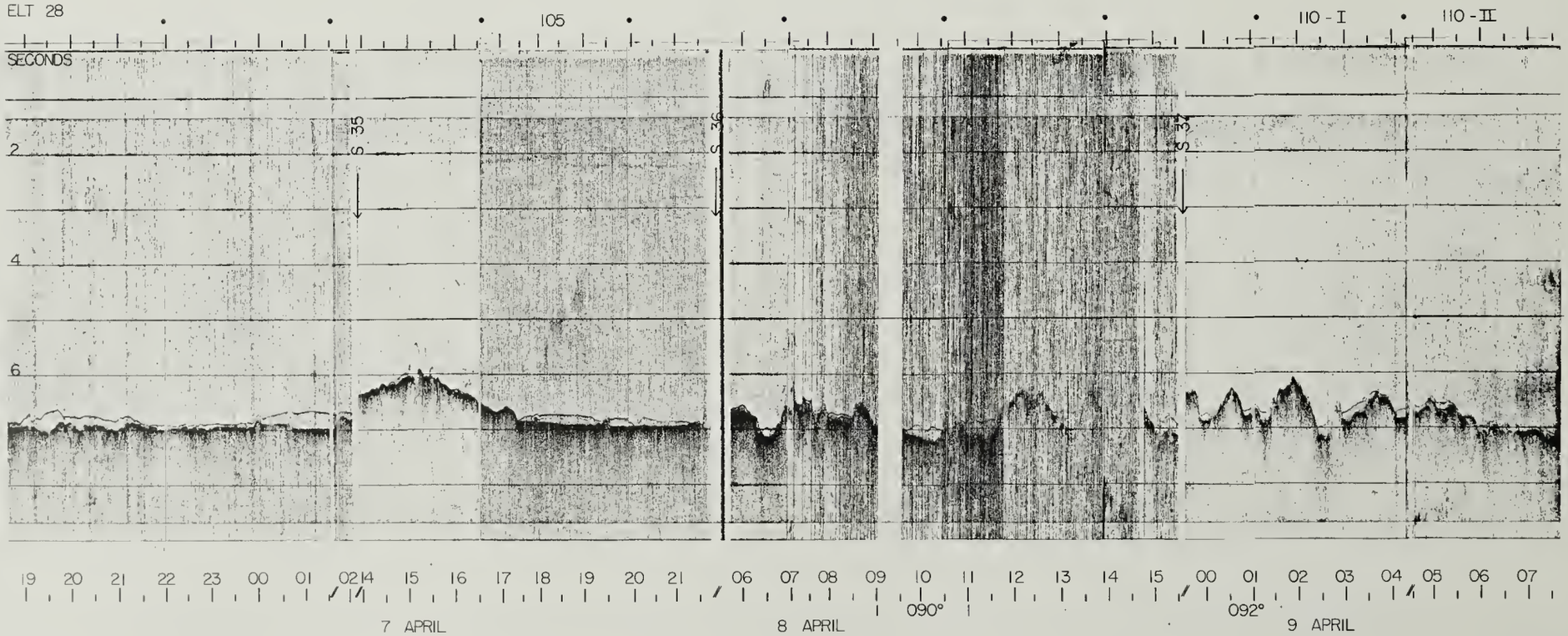
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S 36
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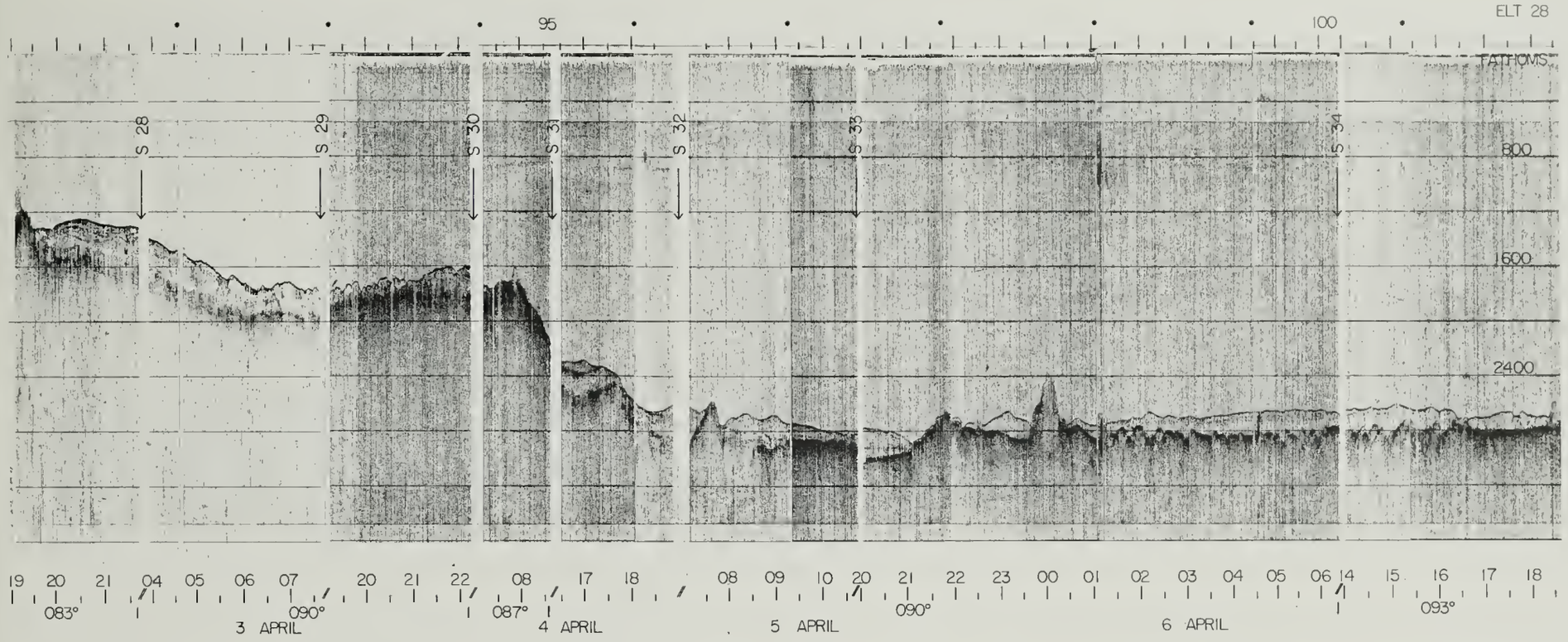
090°
092°
7 APRIL
8 APRIL
9 APRIL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FATHOMS
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S 29
S 30
S 31
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S 33
S 34
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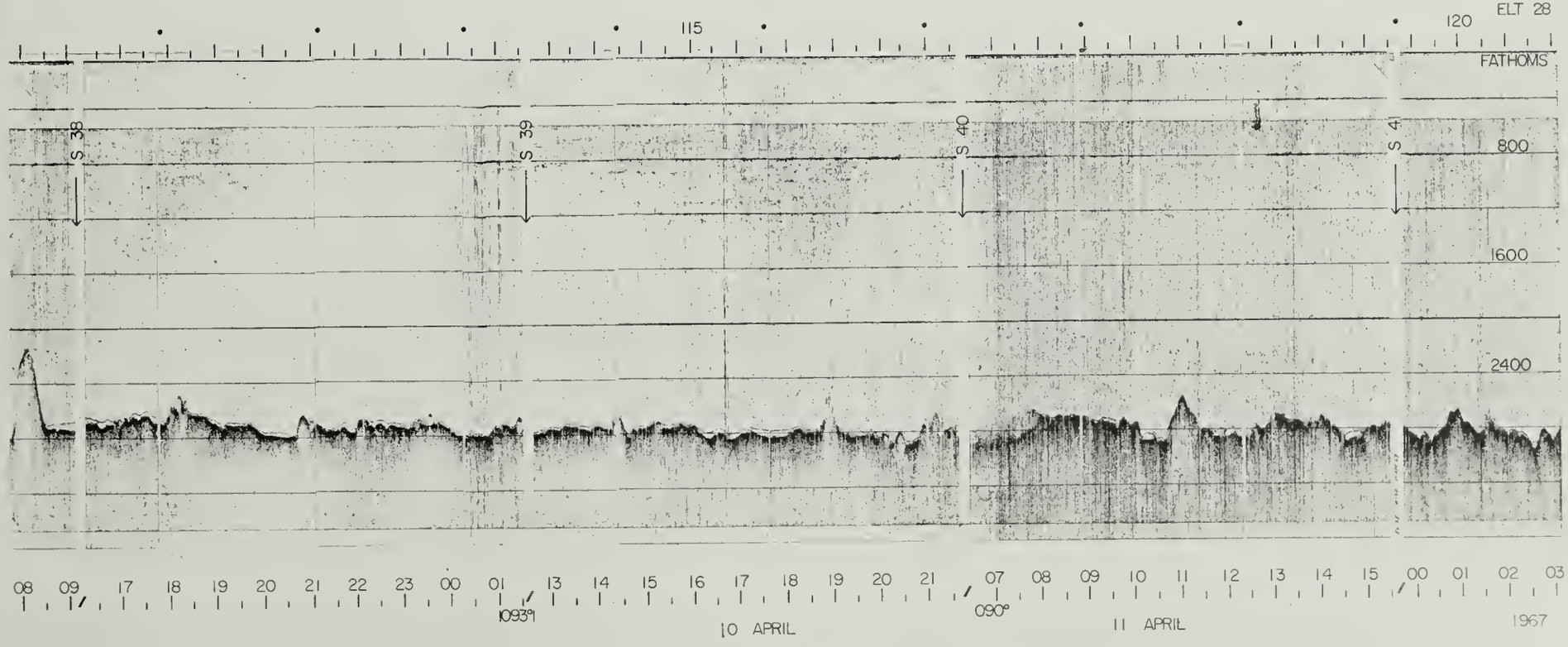
090°
087°
090°
093°
3 APRIL
4 APRIL
5 APRIL
6 APRIL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S 38
S 39
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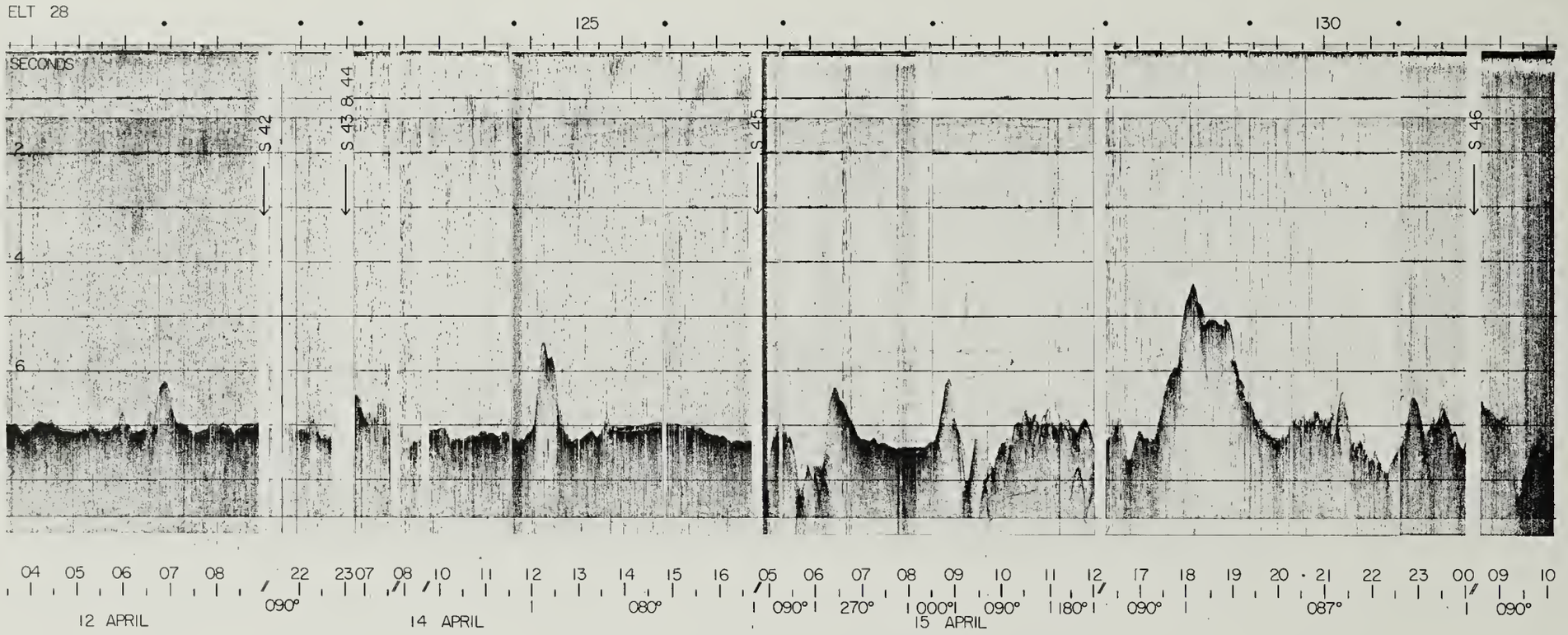
093°
090°
10 APRIL
11 APRIL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S 45
S 46
04 05 06 07 08 22 23 07 08 10 11 12 13 14 15 16 05 06 07 08 09 10 11 12 17 18 19 20 21 22 23 00 09 10
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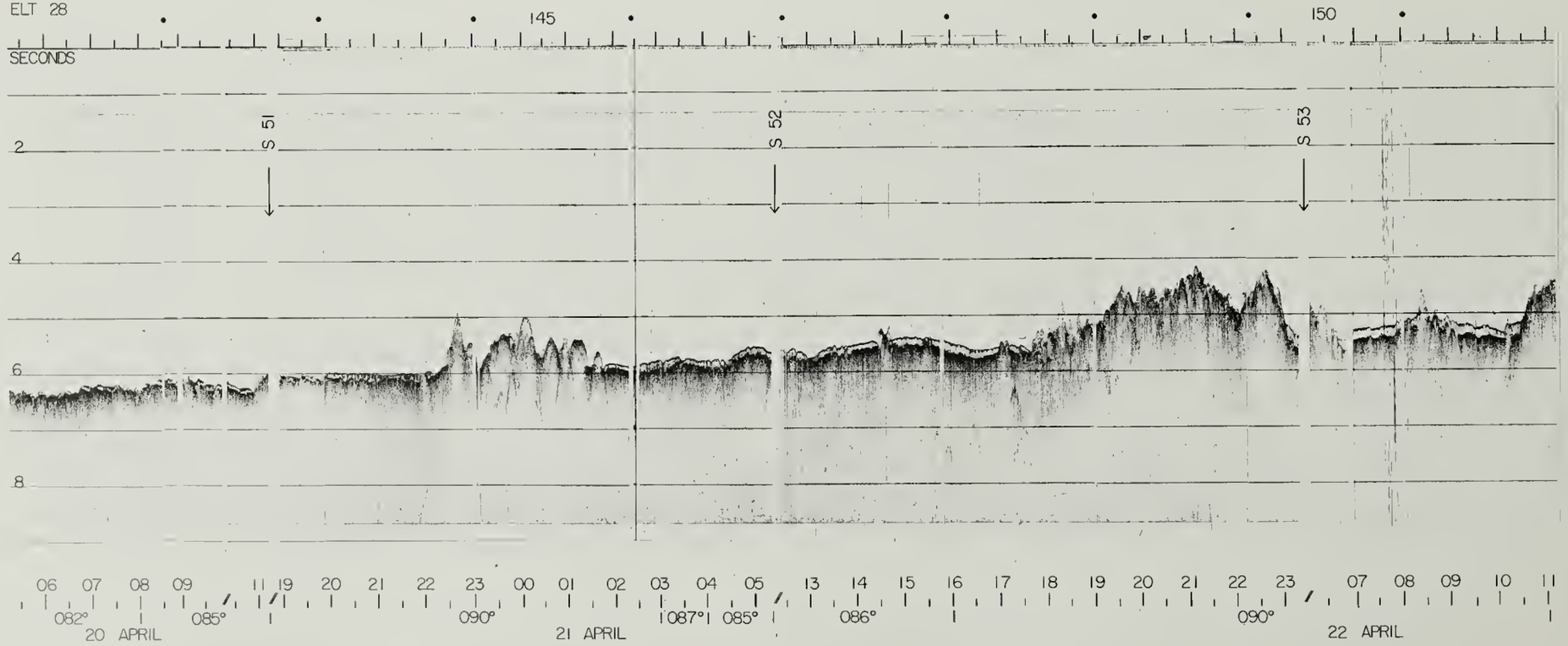
12 APRIL
14 APRIL
15 APRIL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145
150
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S 52
S 53
06 07 08 09 11 19 20 21 22 23 00 01 02 03 04 05 13 14 15 16 17 18 19 20 21 22 23 07 08 09 10 11
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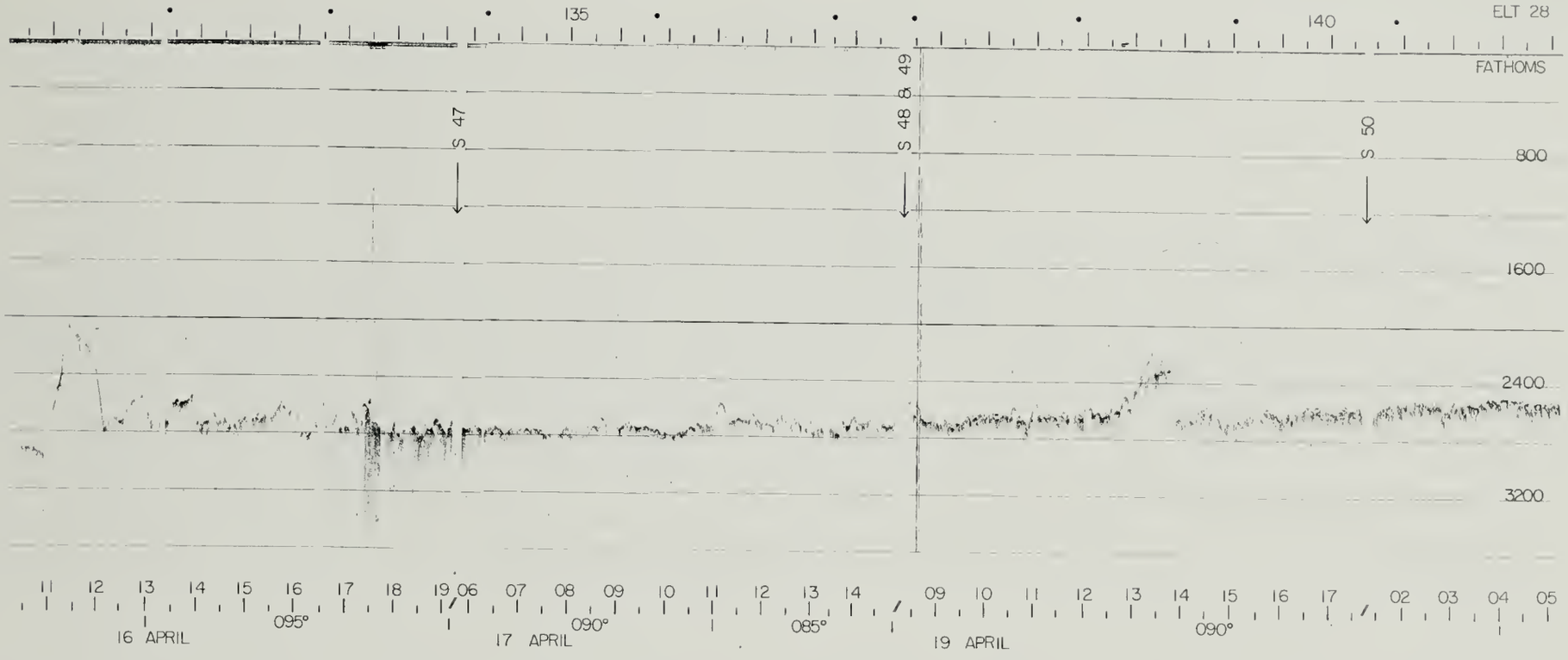
21 APRIL
22 APRIL


135
140
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S 47
S 48 & 49
S 50
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1600
2400
3200
11 12 13 14 15 16 17 18 19 06 07 08 09 10 11 12 13 14 09 10 11 12 13 14 15 16 17 02 03 04 05
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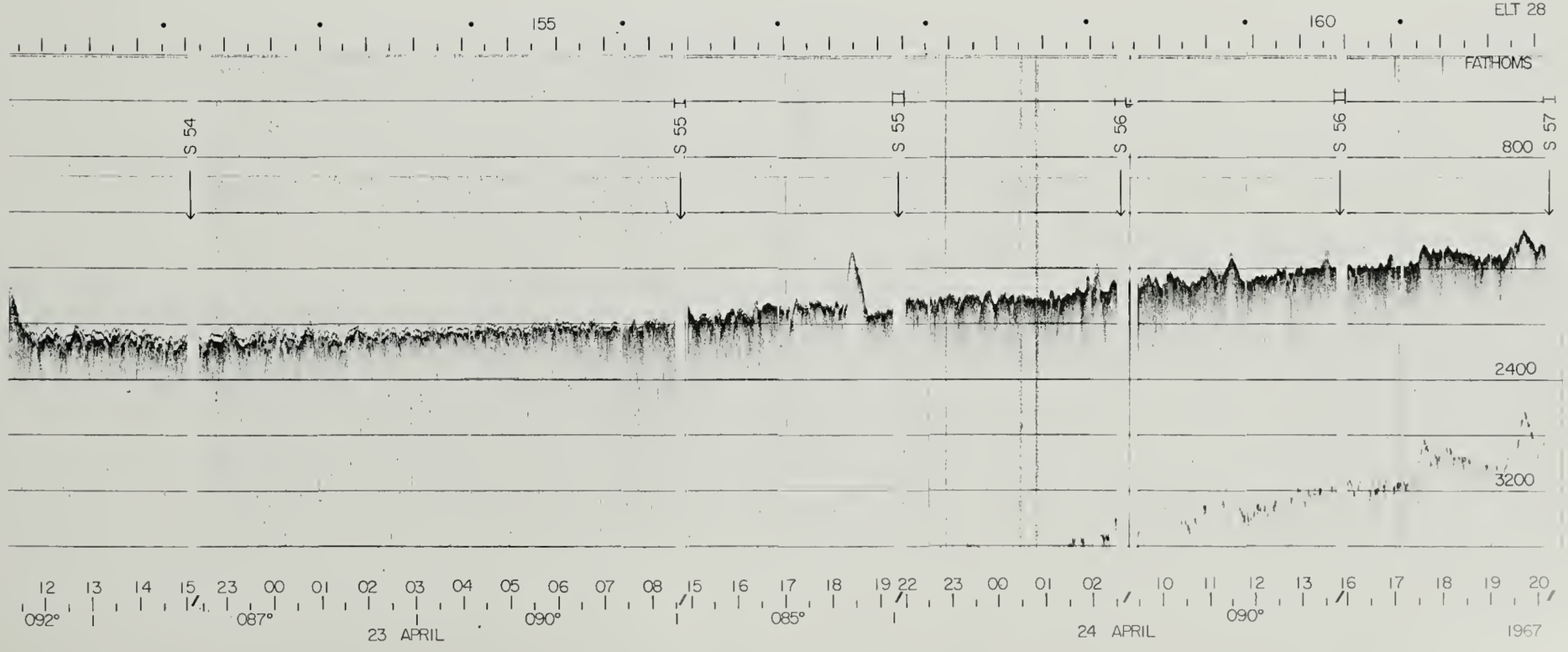
090°
085°
090°
16 APRIL
17 APRIL
19 APRIL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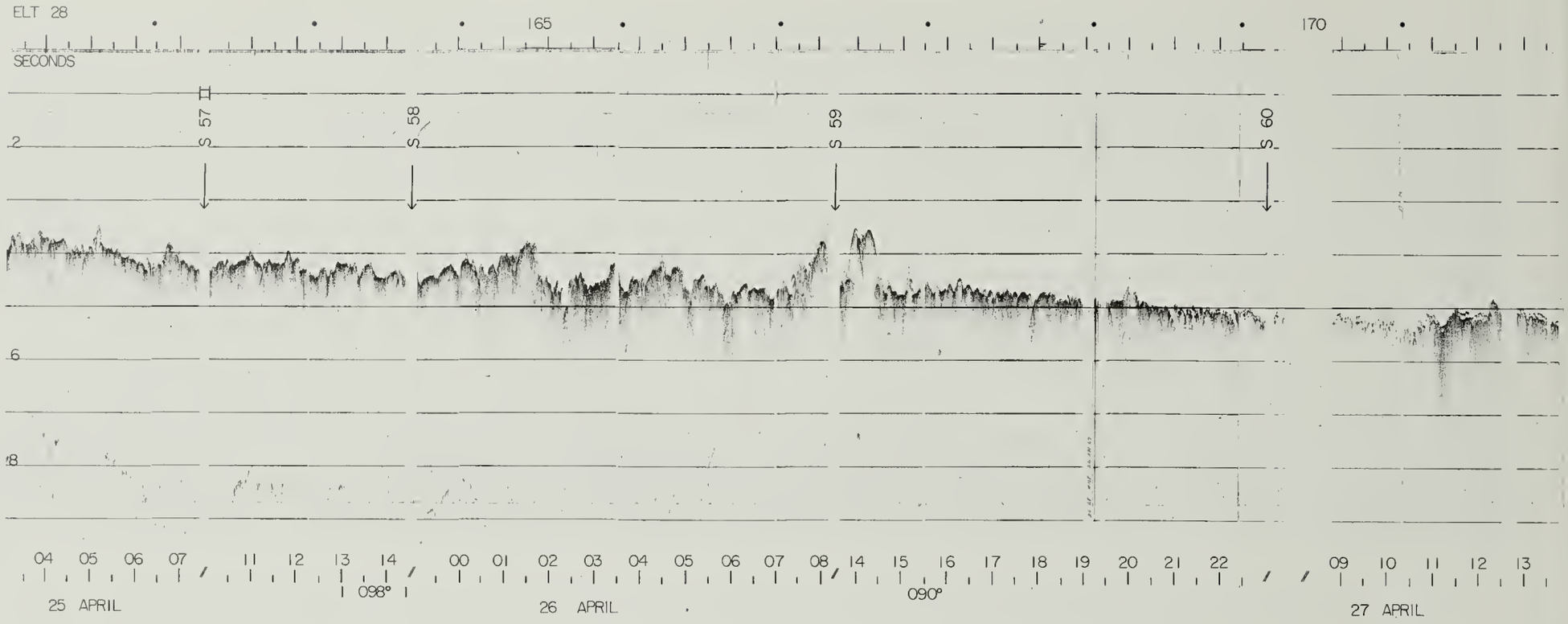
085°
090°
23 APRIL
24 APRIL
1967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25 APRIL
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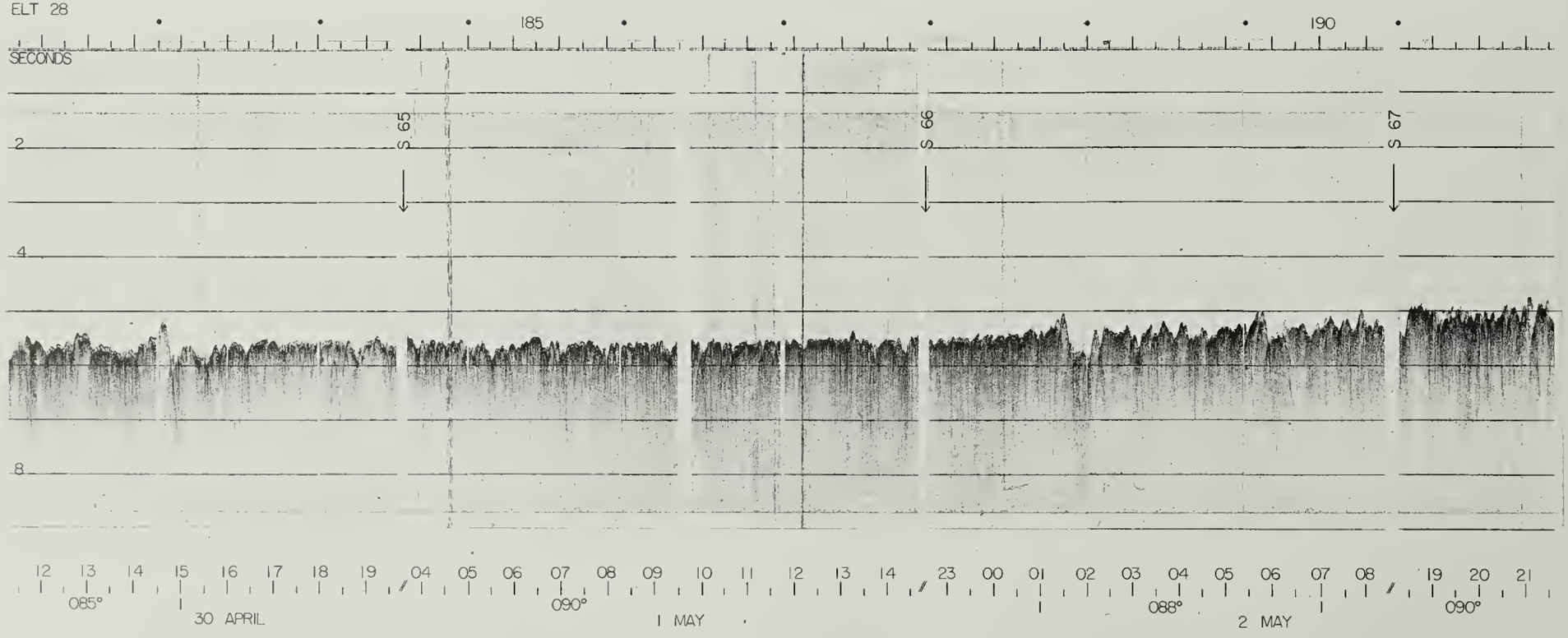
27 APRIL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185
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088°
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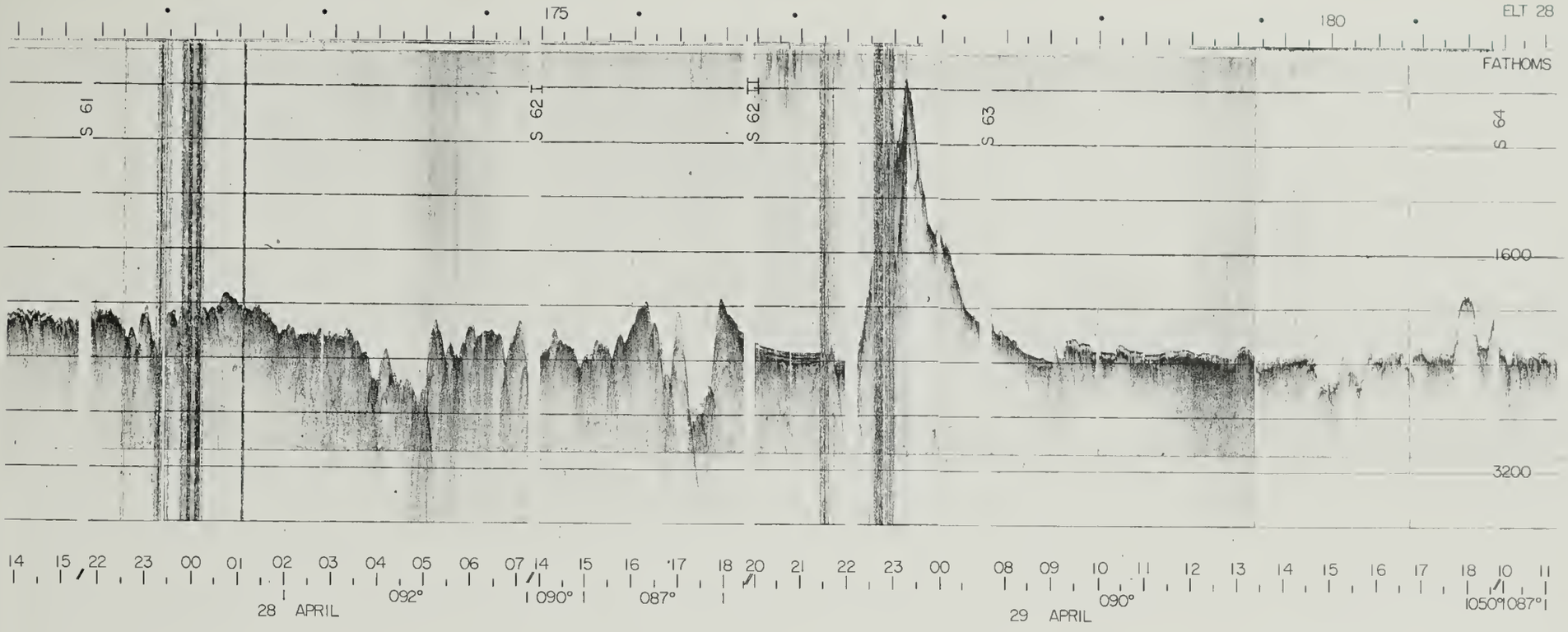
30 APRIL
1 MAY
2 MAY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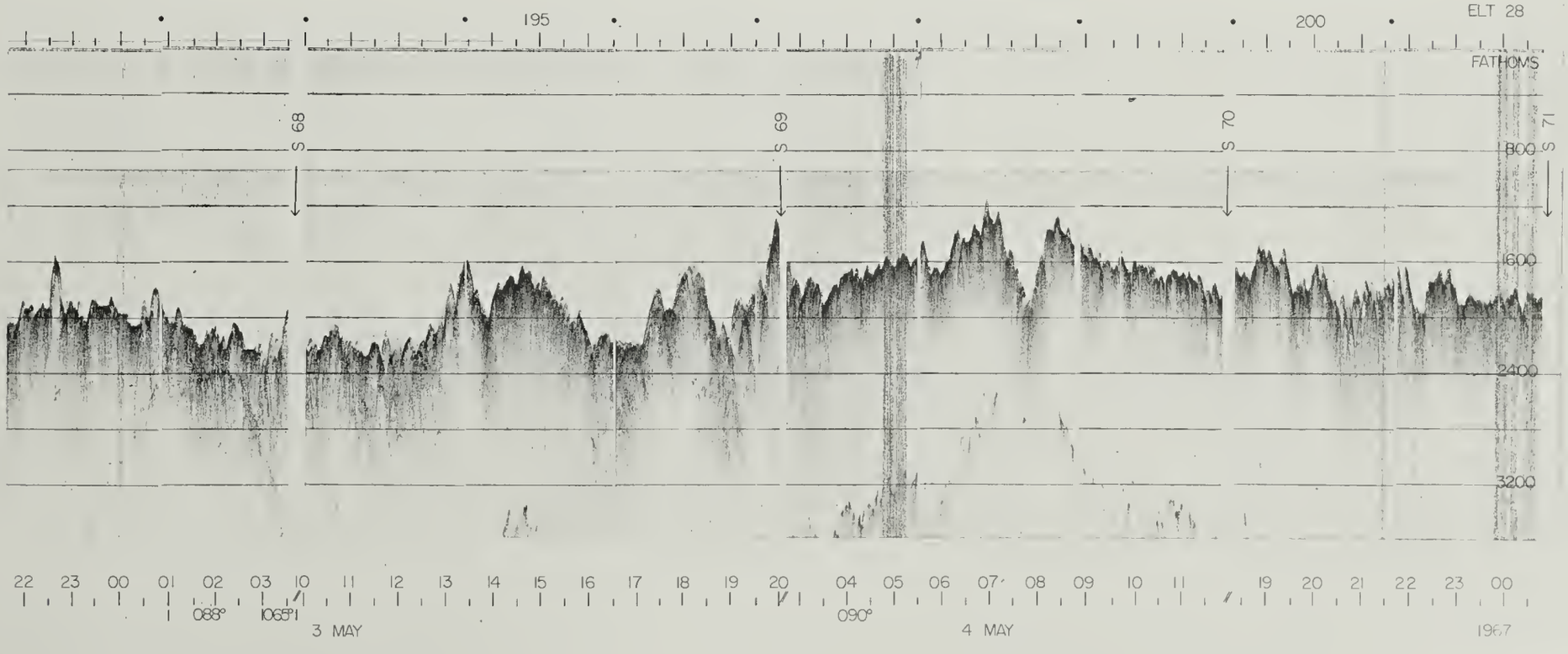
29 APRIL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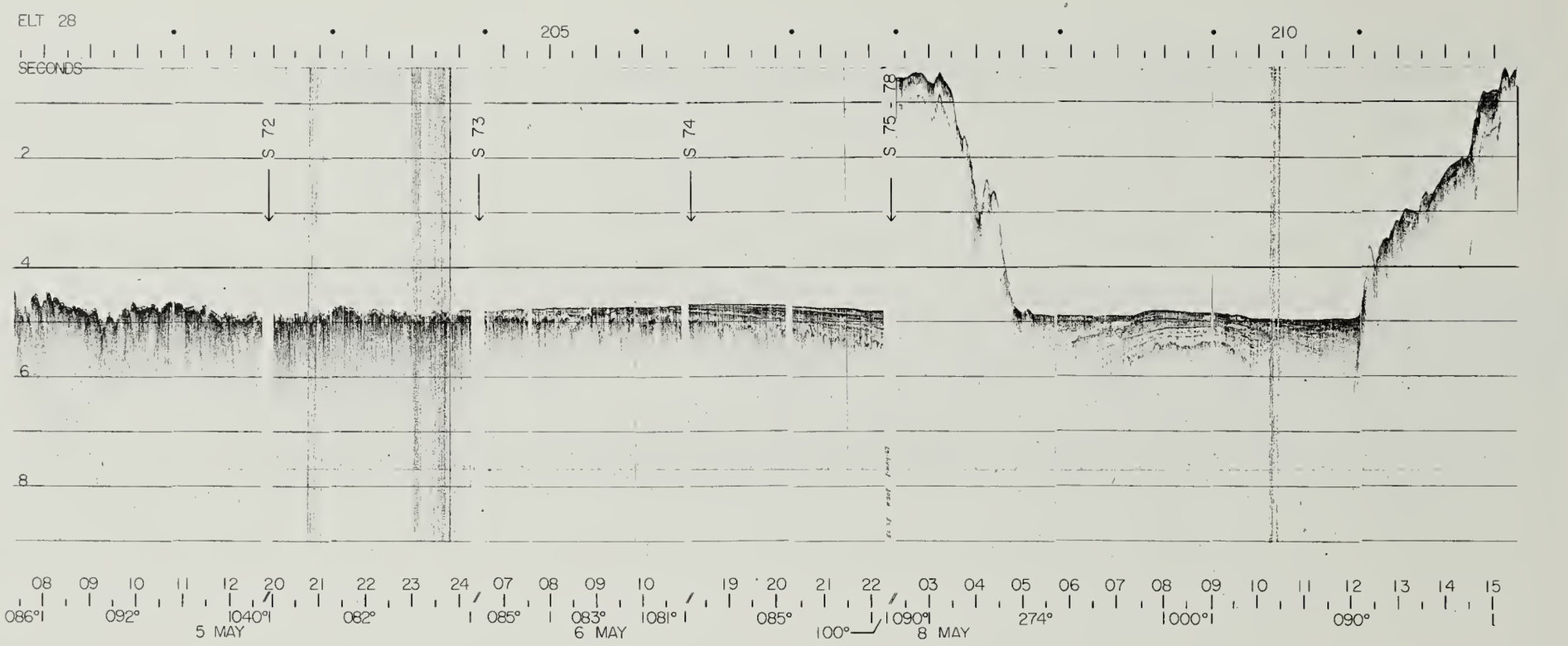
3 MAY
4 MAY
1967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086°
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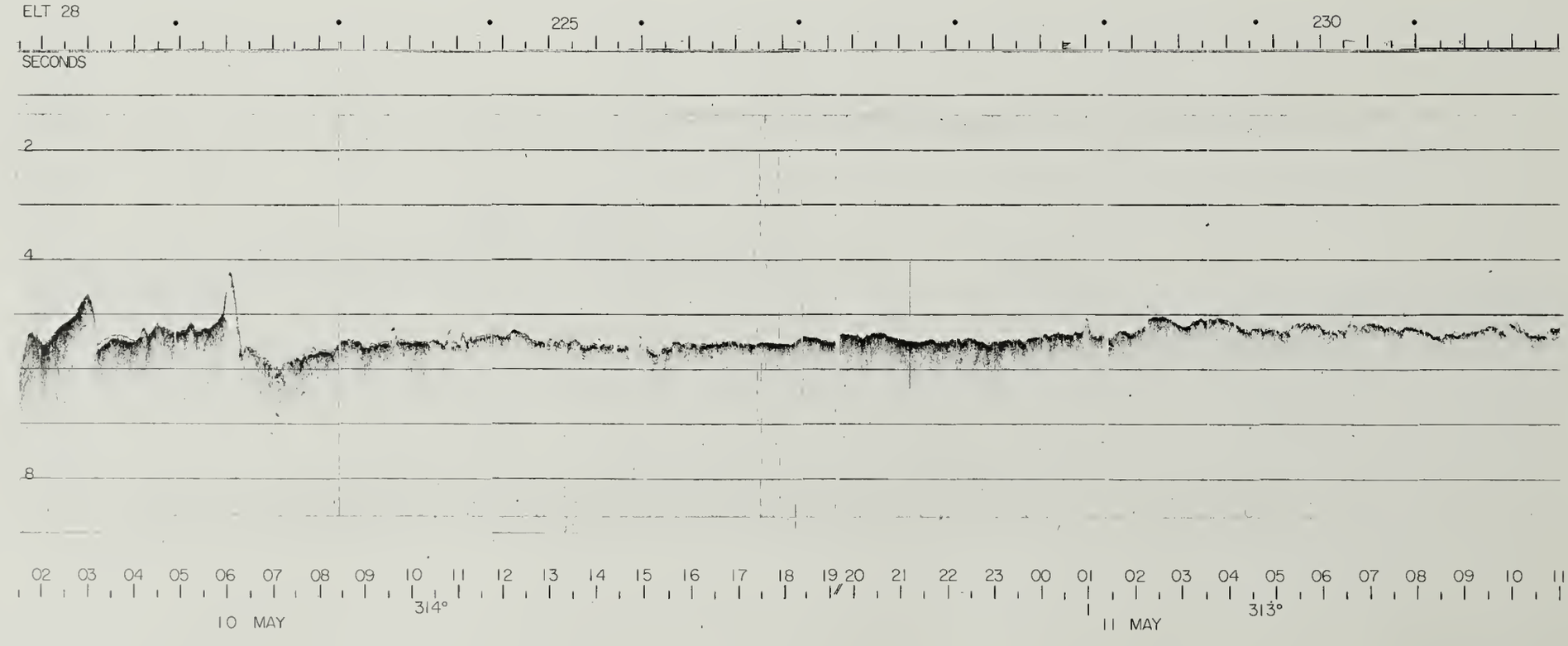
5 MAY
6 MAY
8 MAY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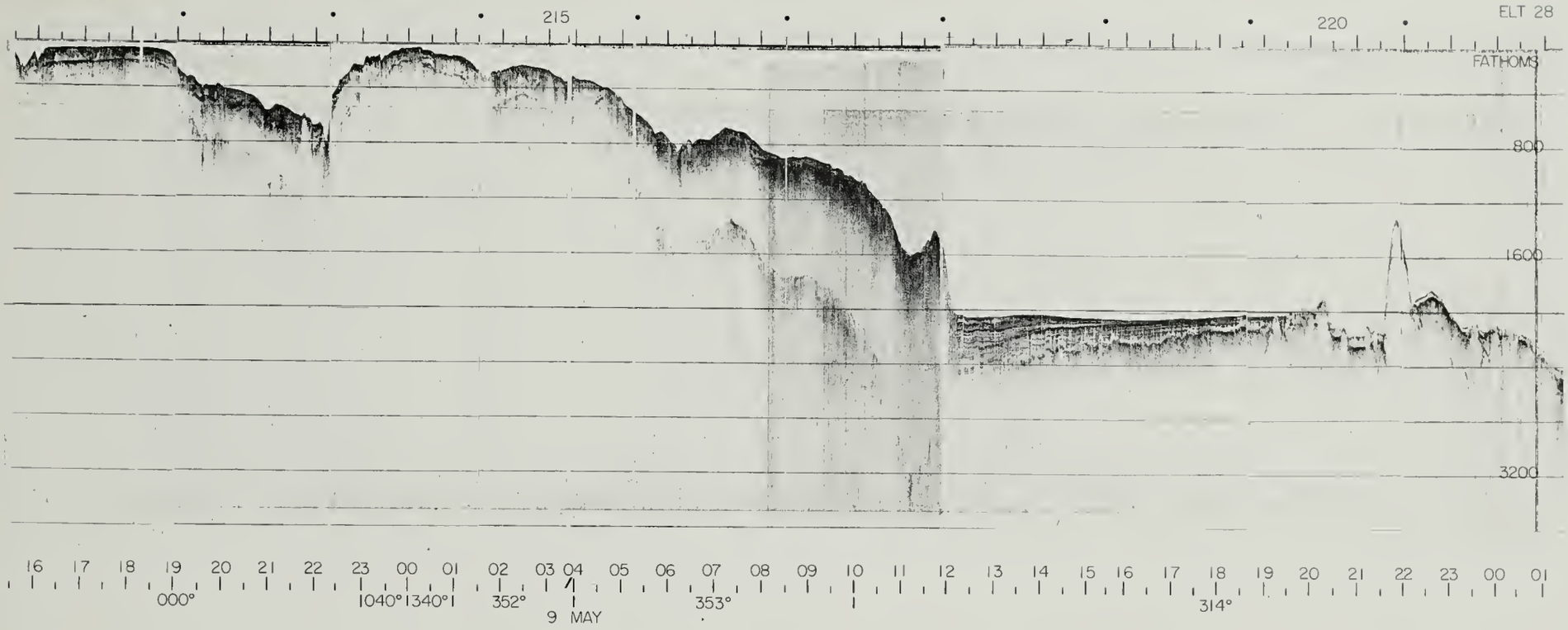
11 MAY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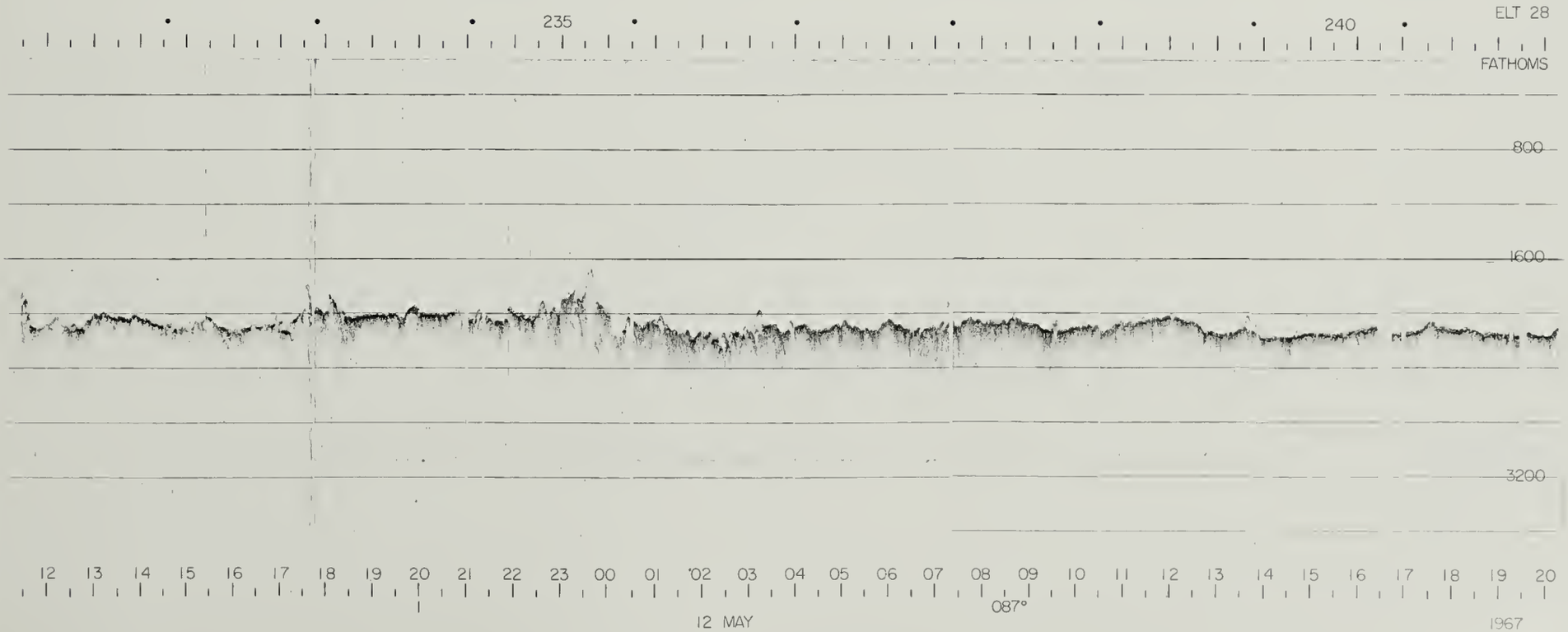
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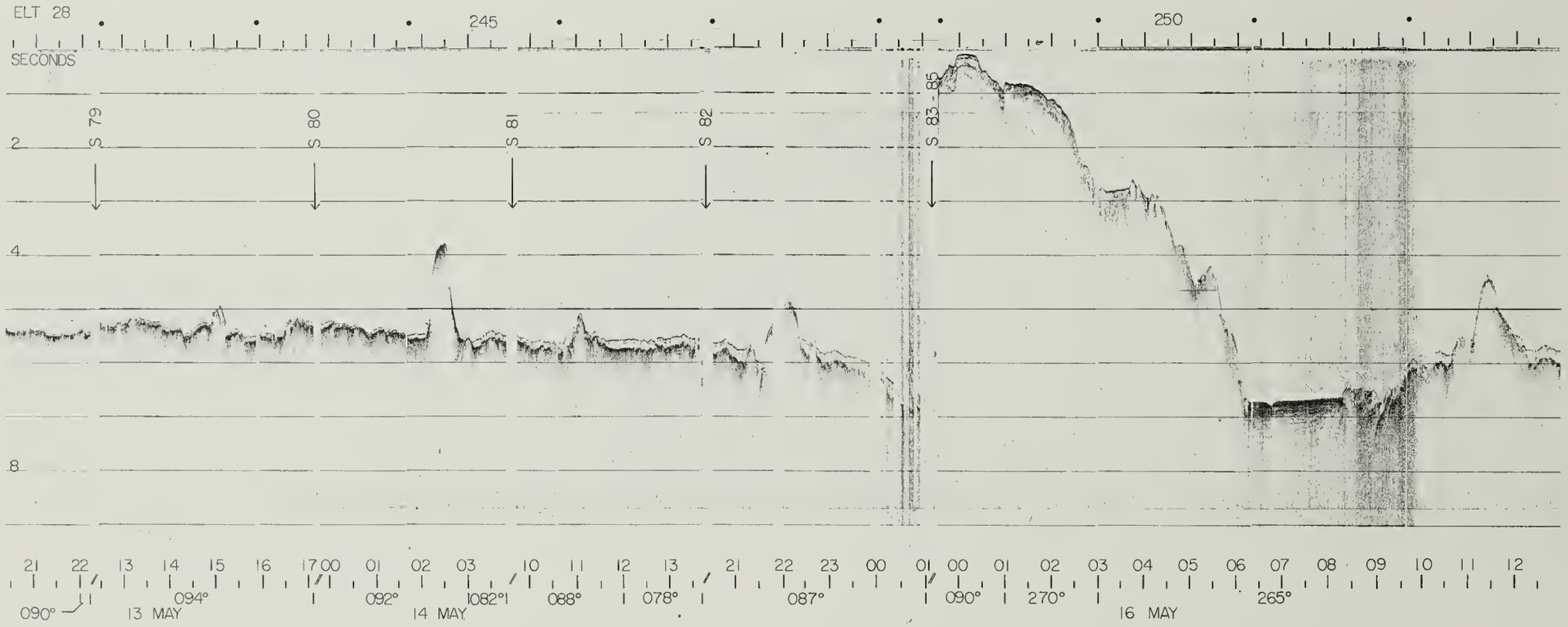
087°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S 80
S 81
S 82
S 83 - 85
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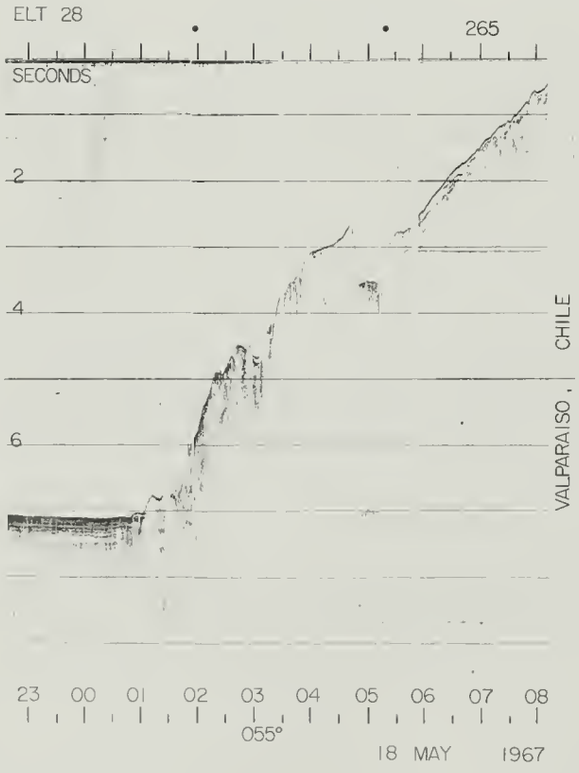
13 MAY
14 MAY
16 MAY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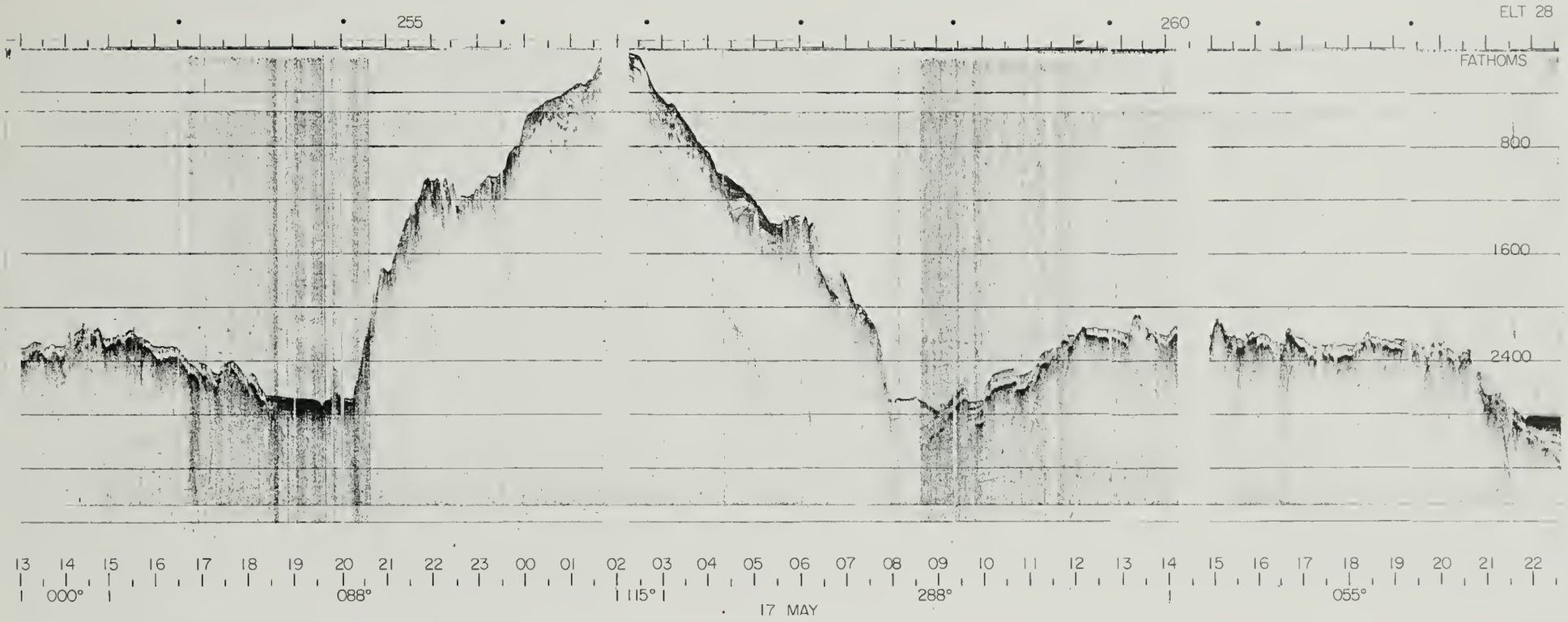
23 00 01 02 03 04 05 06 07 08
055°
18 MAY 1967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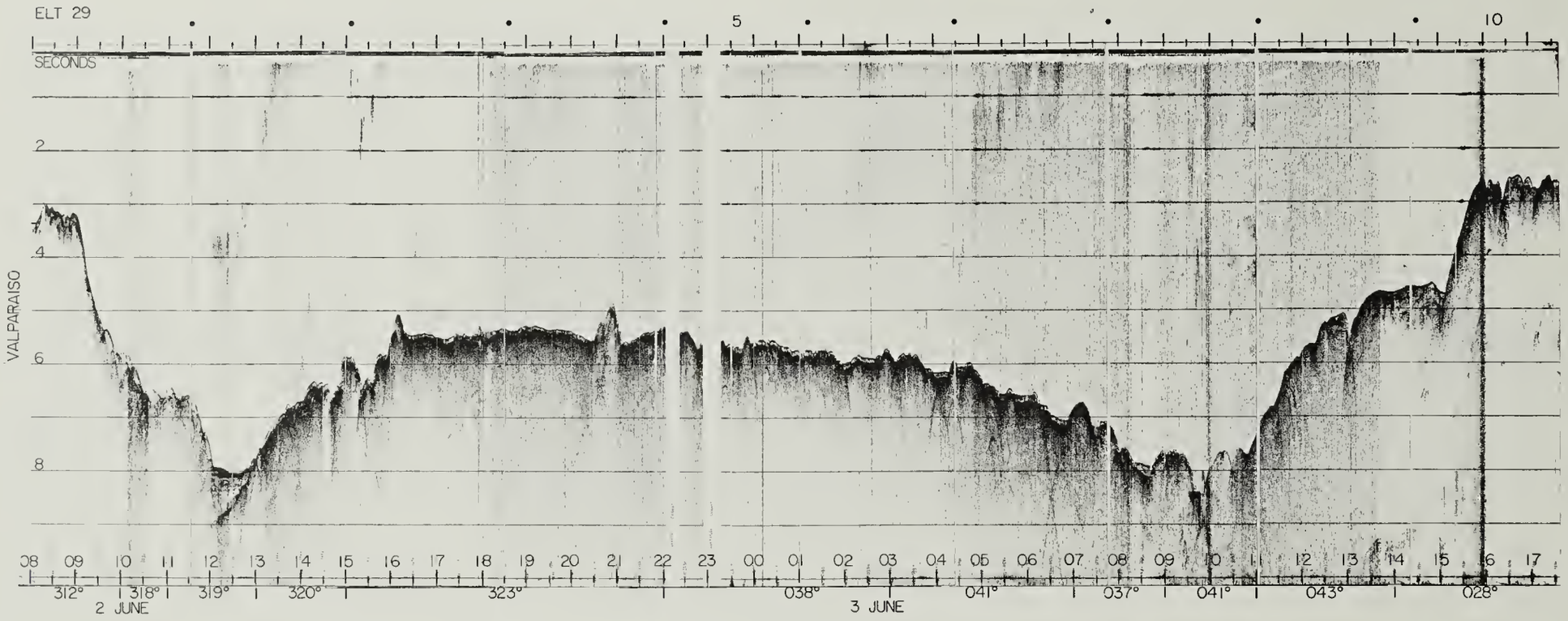
055°
17 MAY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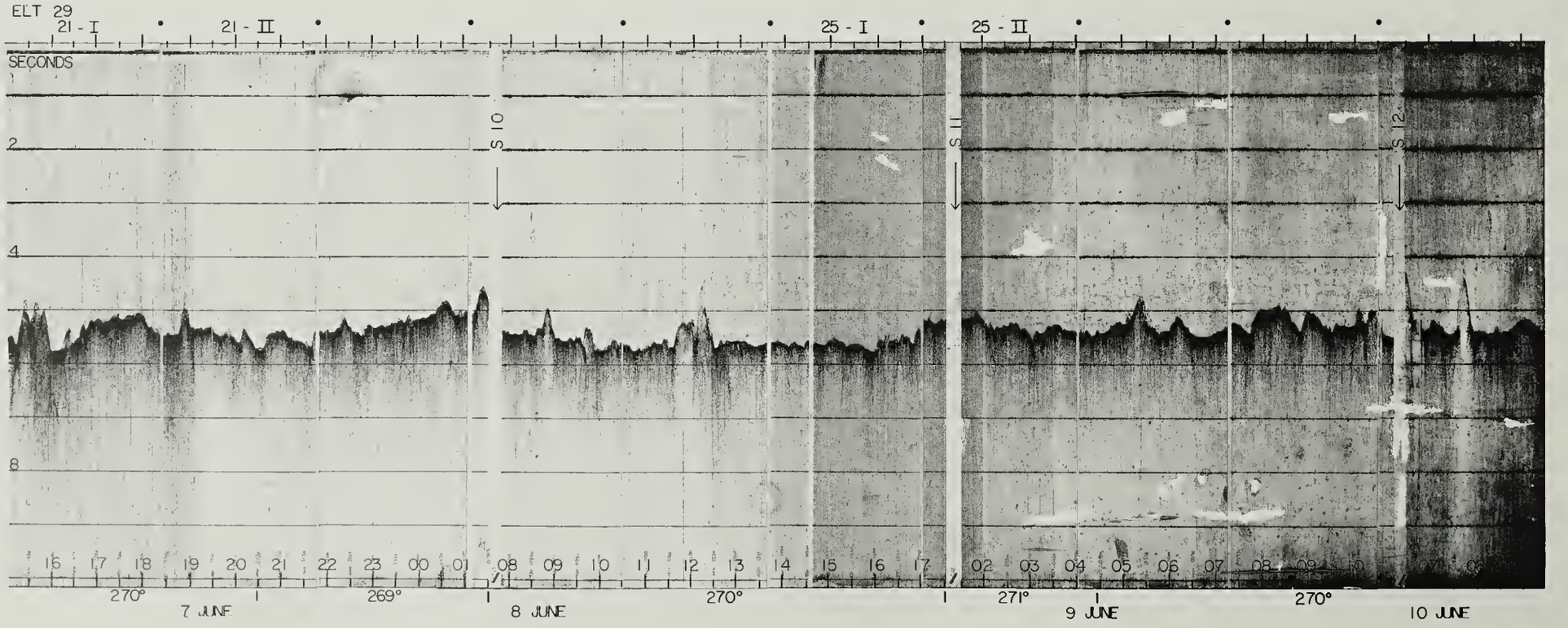
3 JUNE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21 - II
25 - I
25 - II
SECONDS
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8
S 10
S 11
S 12
16 17 18 19 20 21 22 23 00 01 08 09 10 11 12 13 14 15 16 17 02 03 04 05 06 07 08 09 10 11 12
270° 269° 270° 271° 270°
7 JUNE
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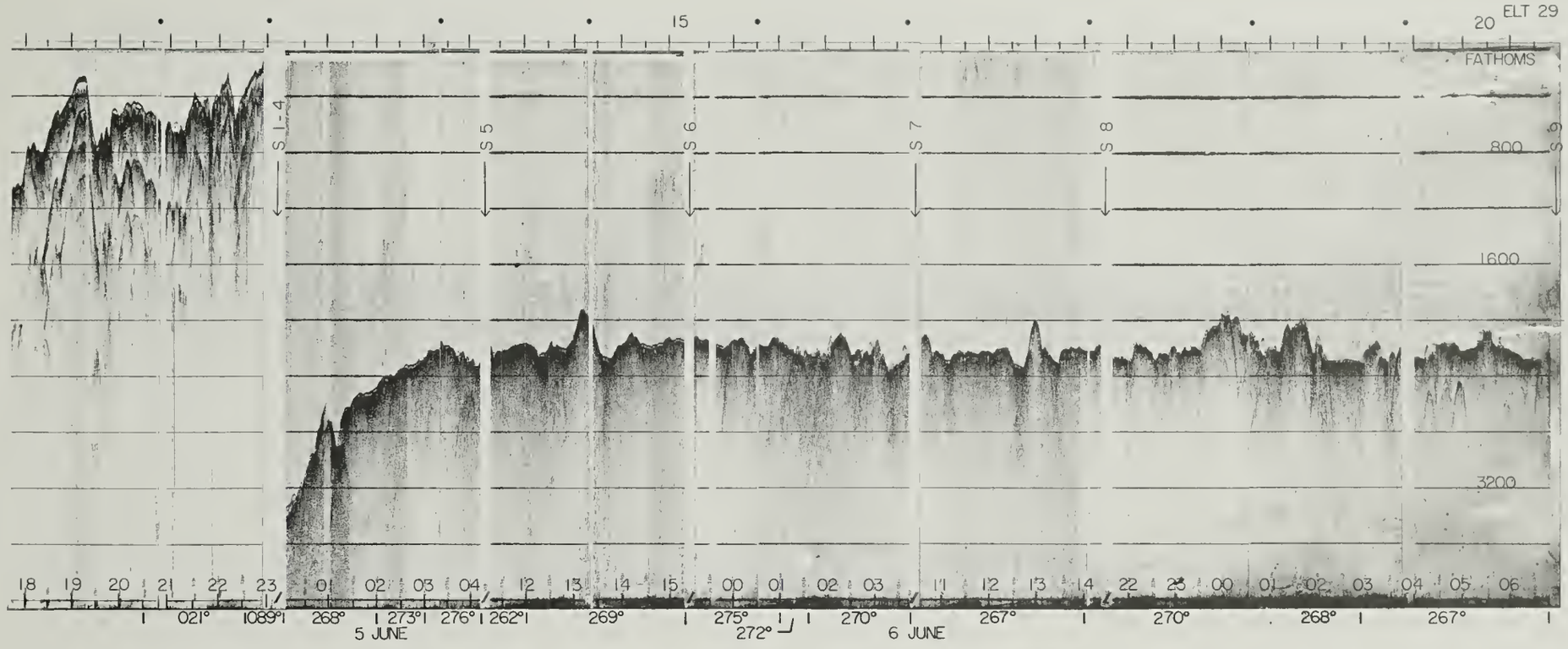
10 JUNE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1600
3200
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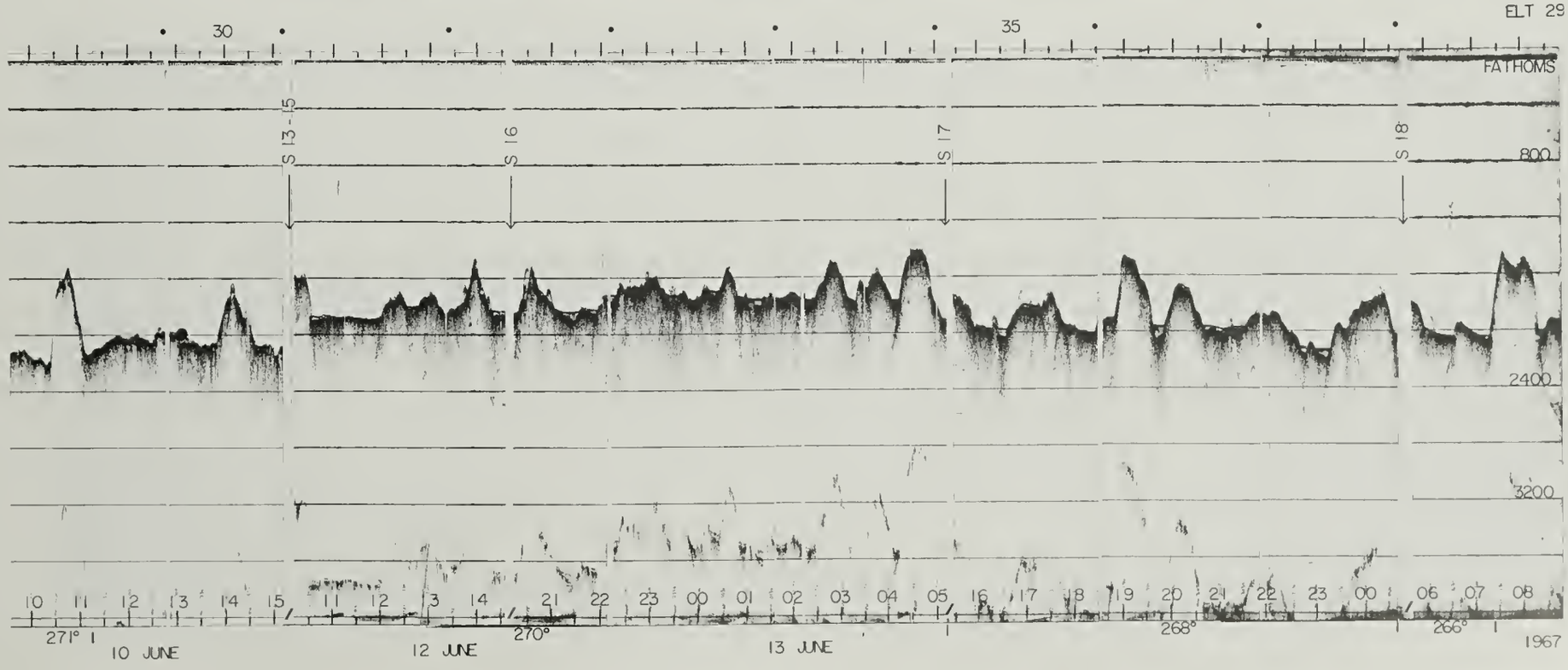
5 JUNE
6 JUNE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2400
3200
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268°
266°
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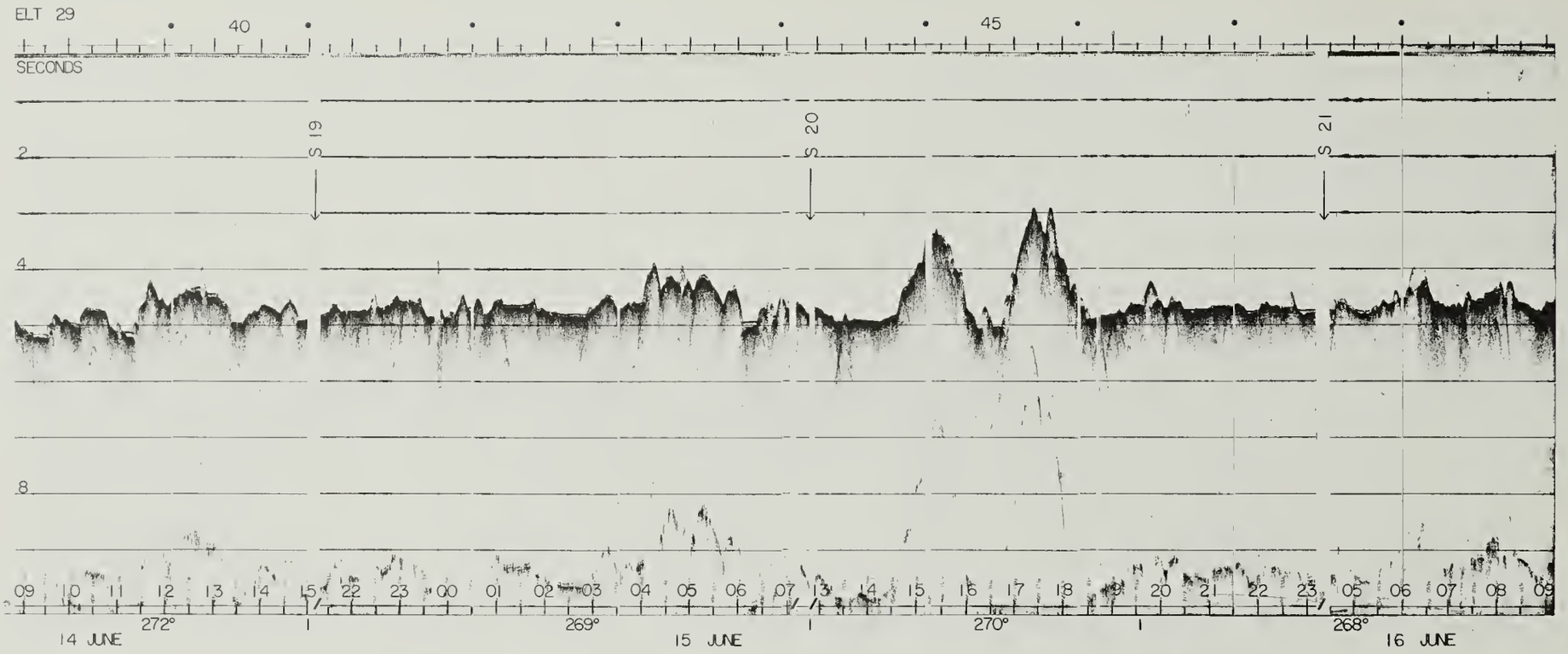
12 JUNE
13 JUNE
1967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SECONDS
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S 20
S 21
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268°
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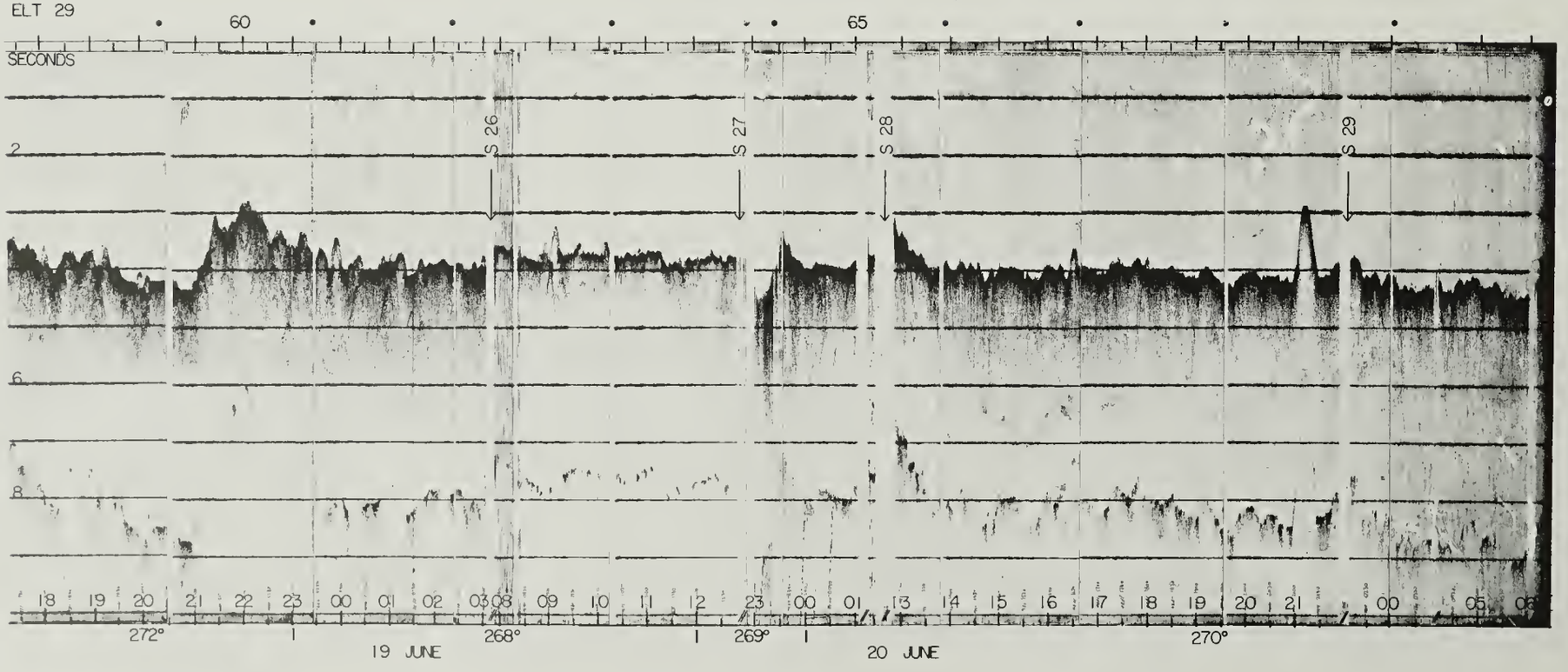
15 JUNE
16 JUNE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269°
270°
19 JUNE
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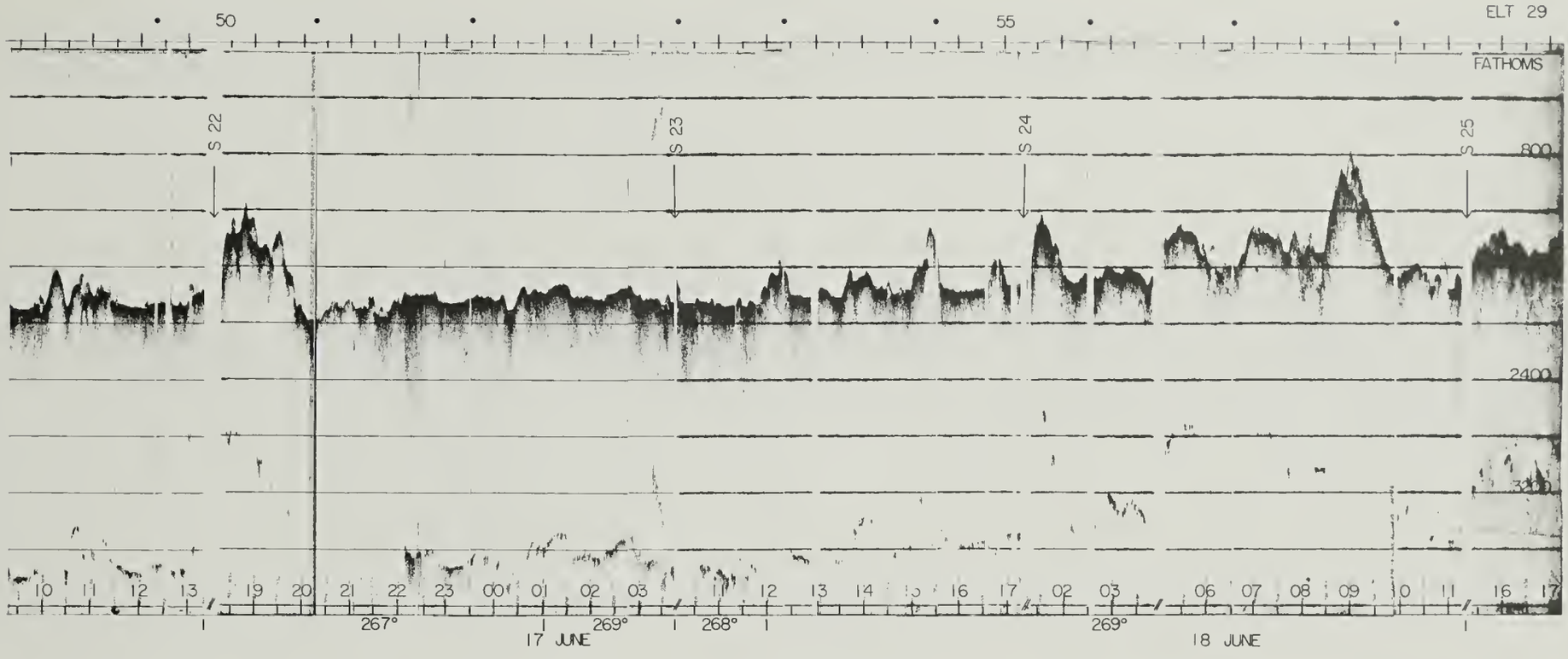
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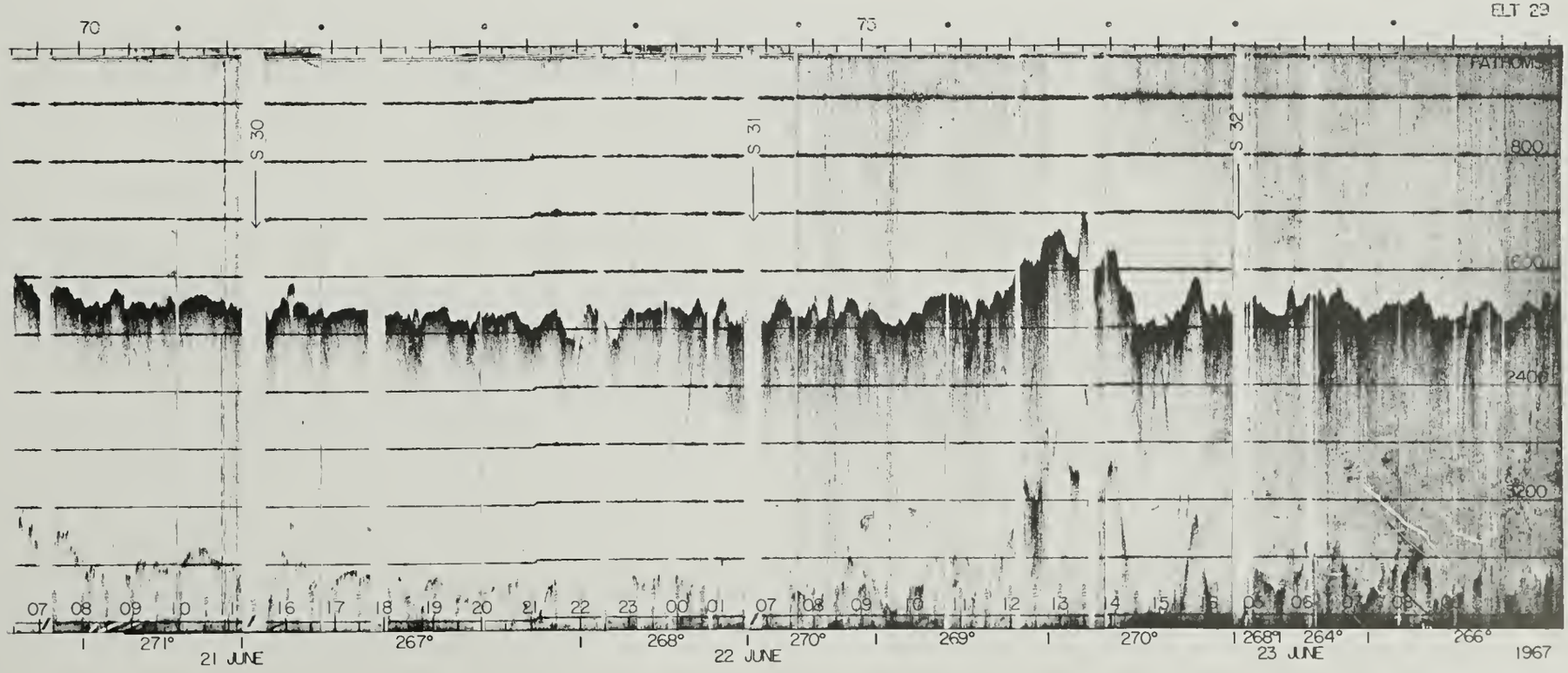
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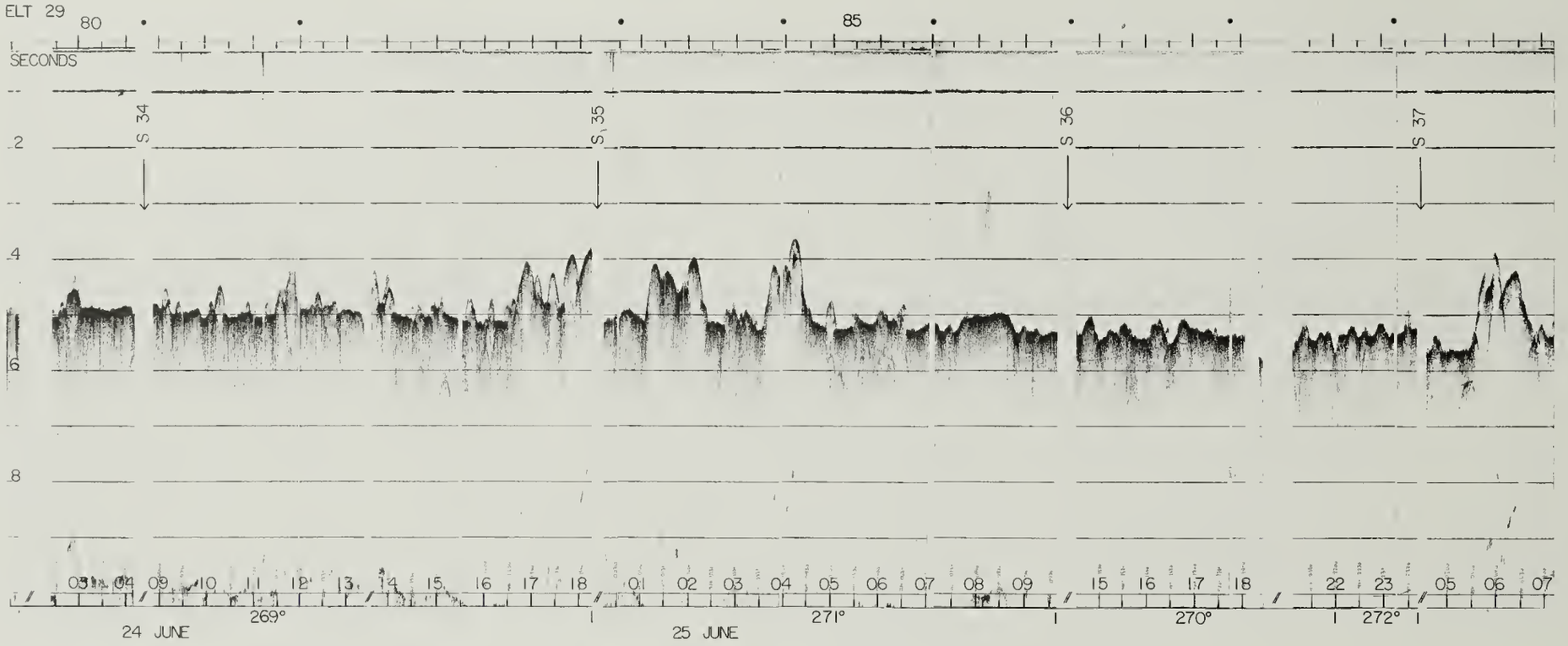
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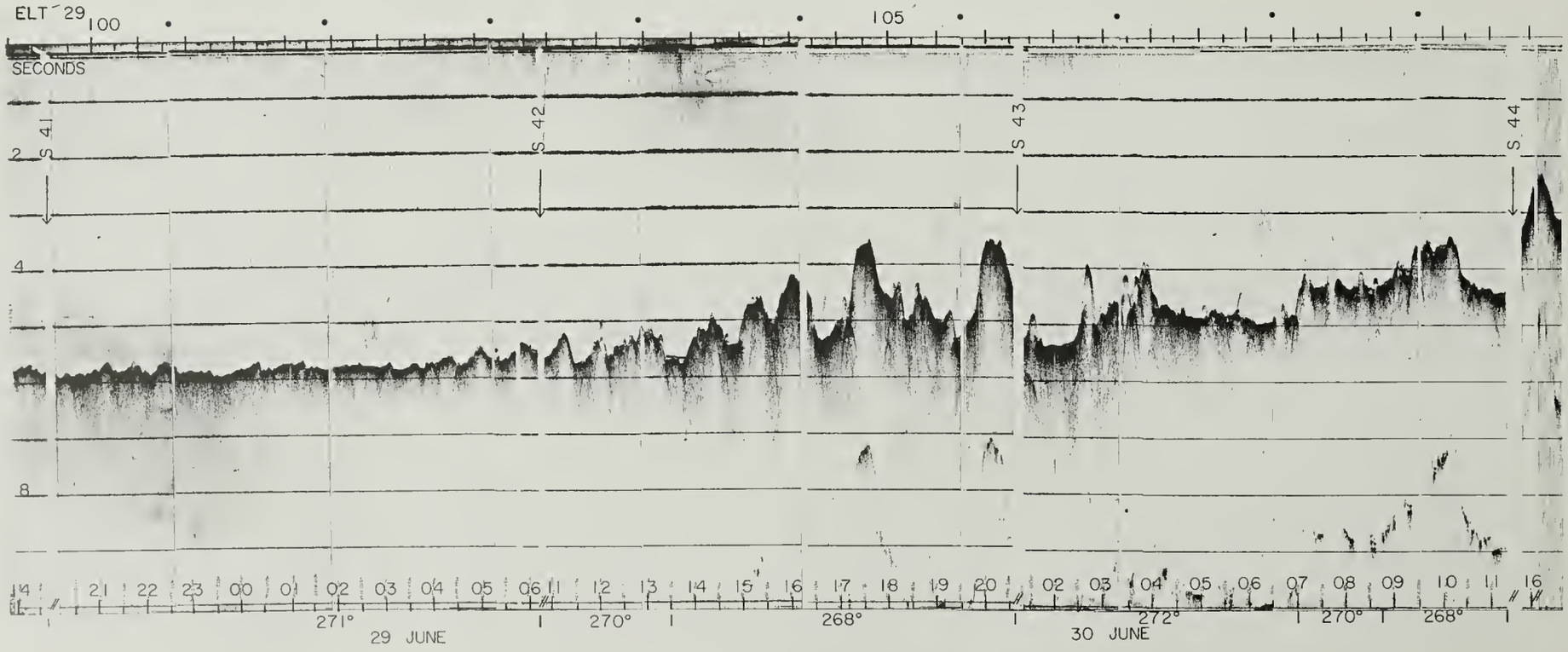
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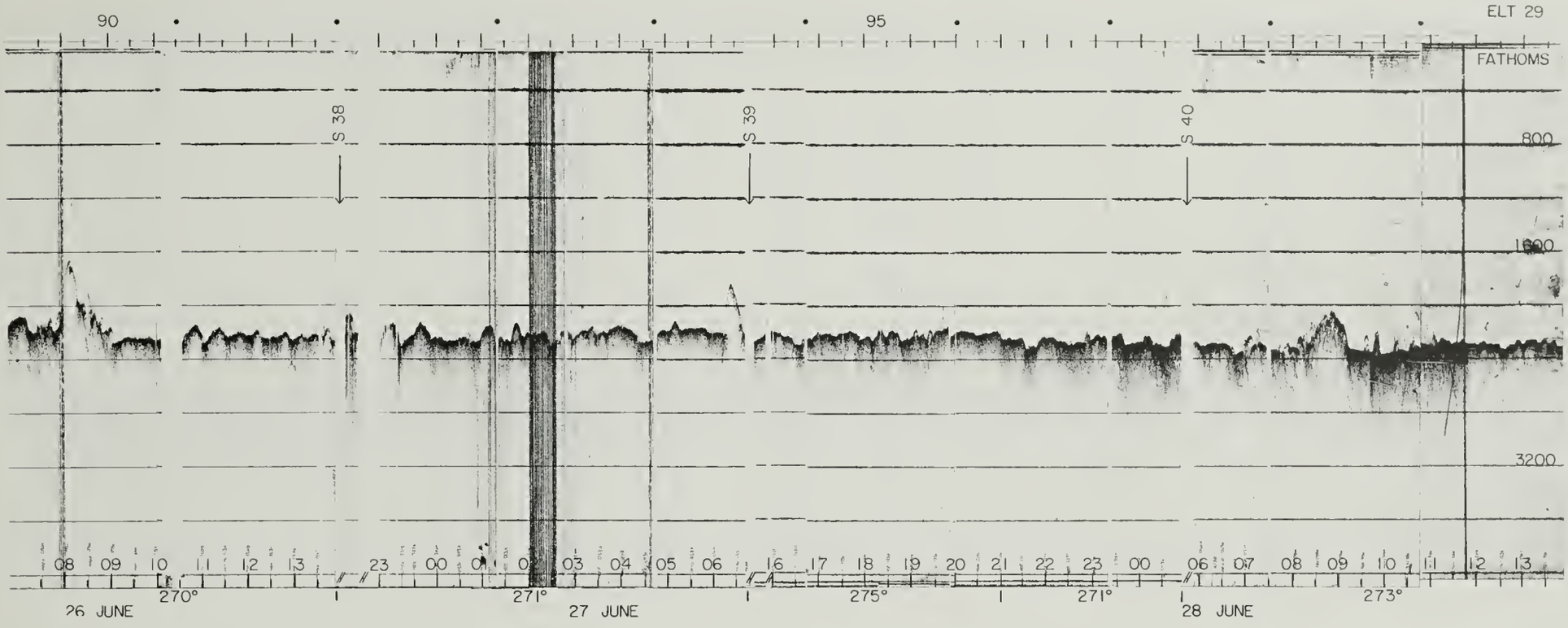
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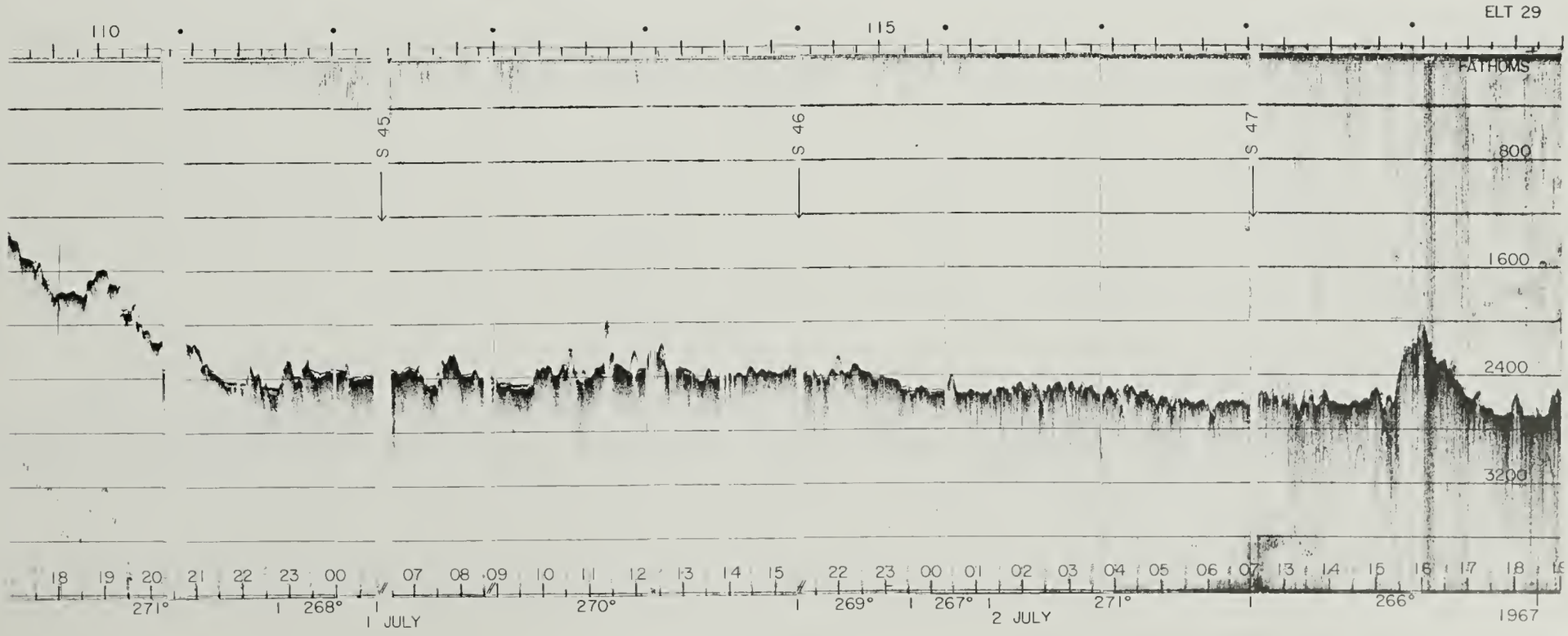
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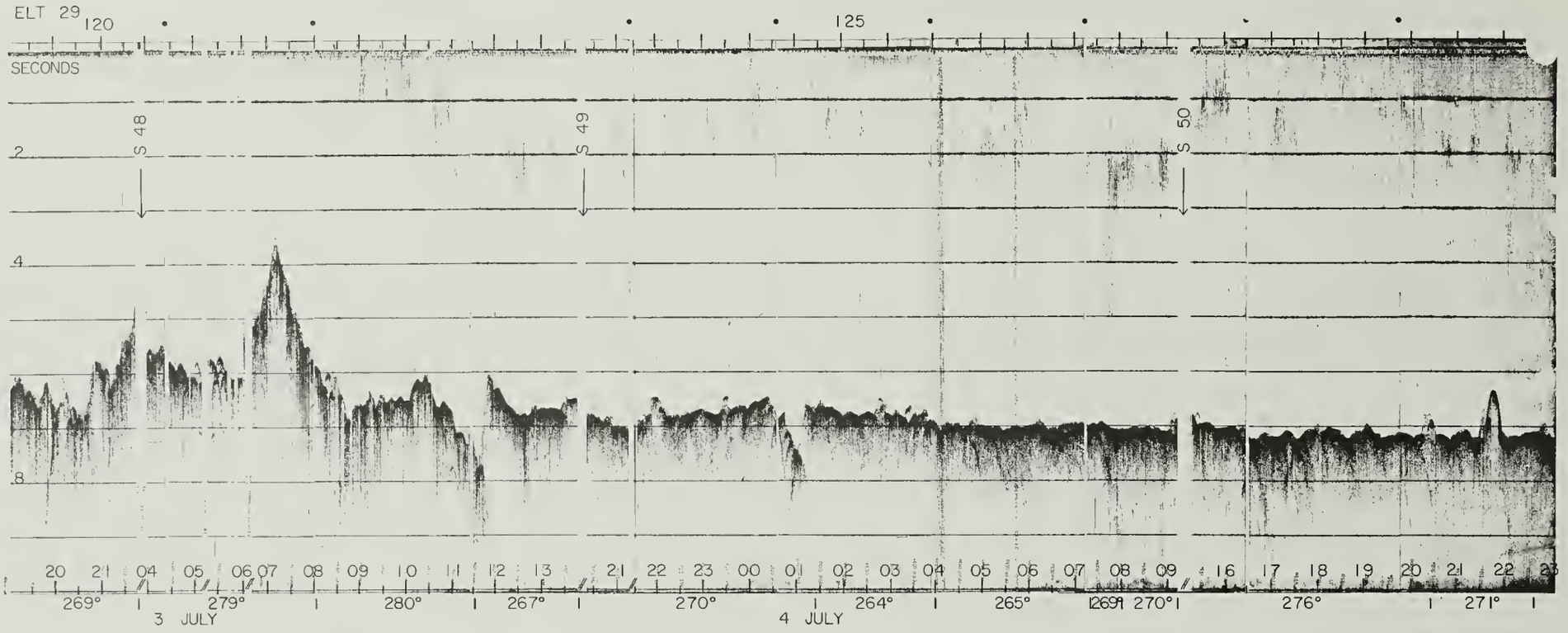
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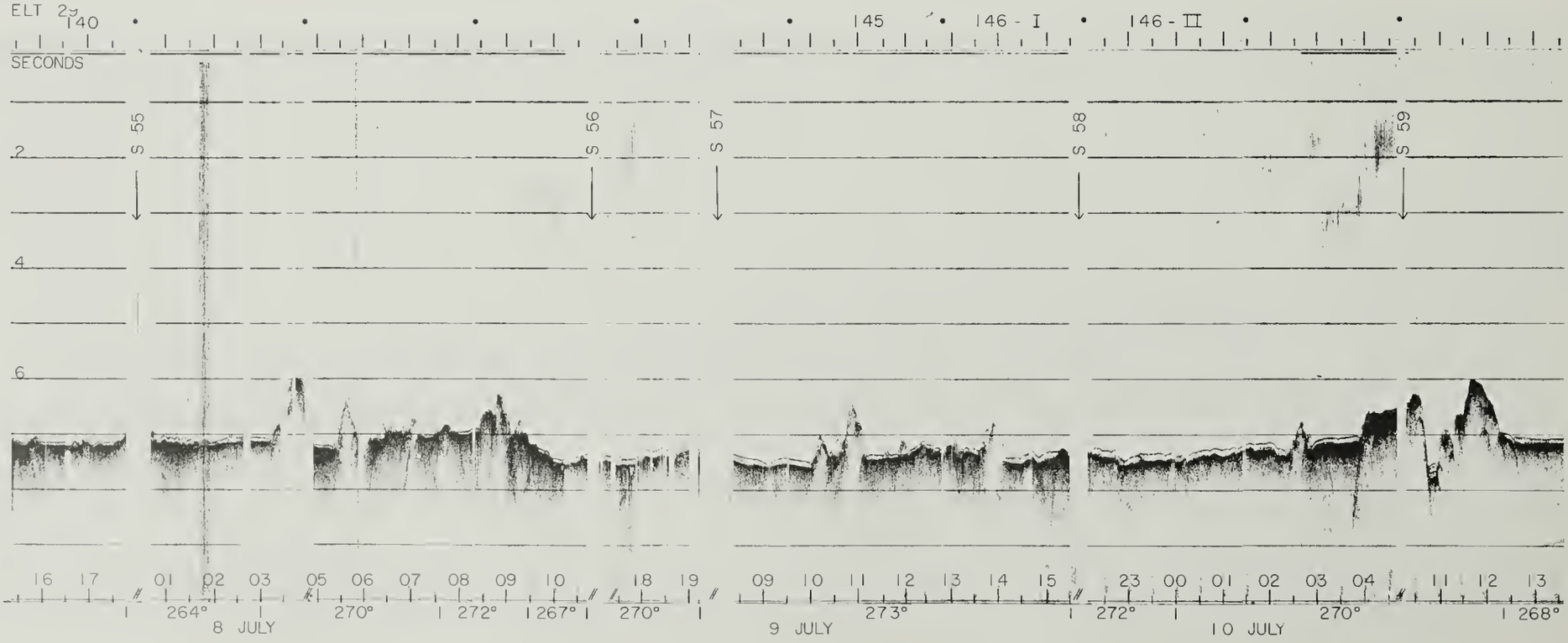
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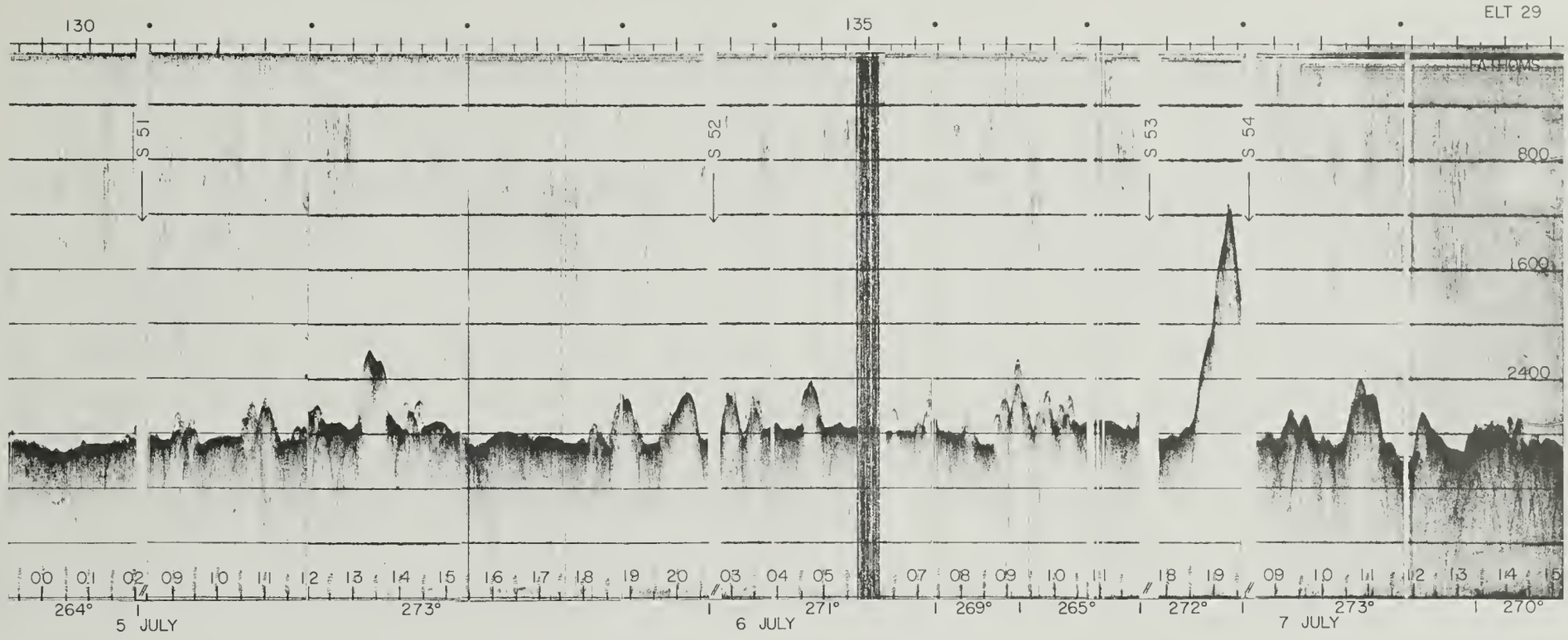
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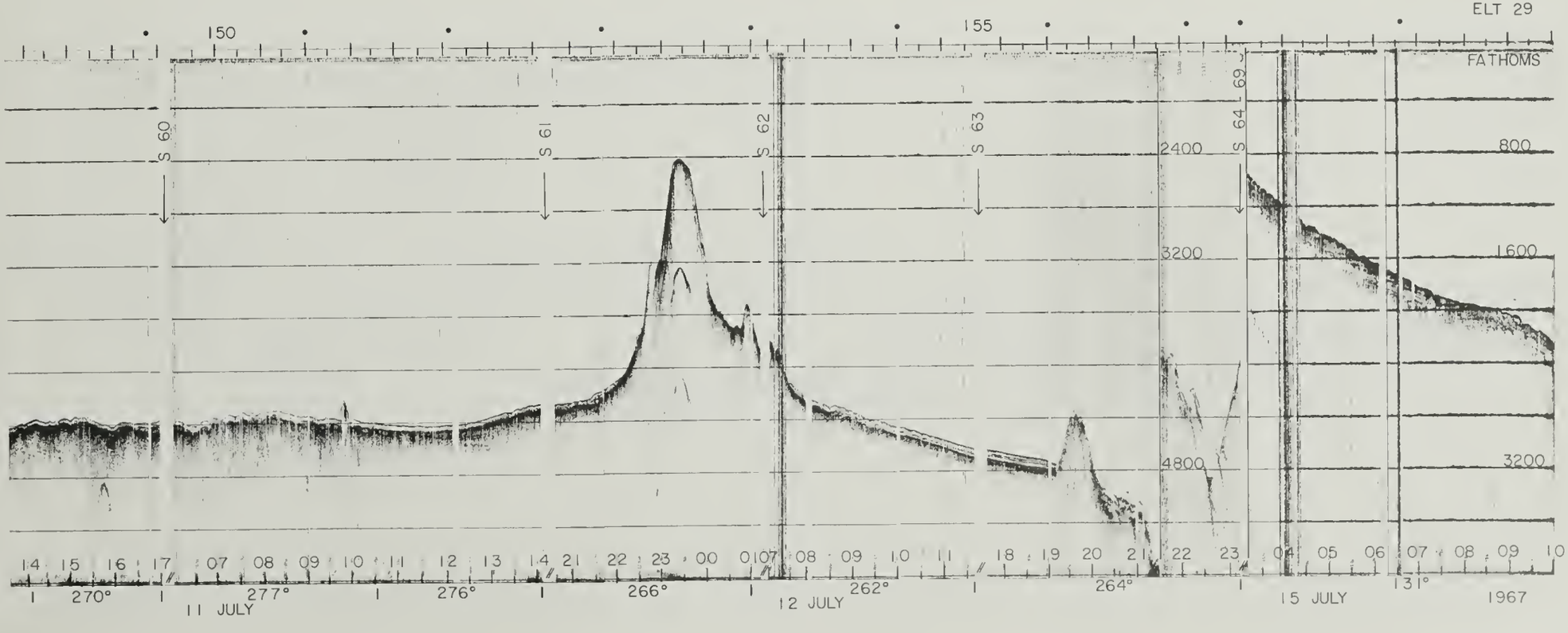
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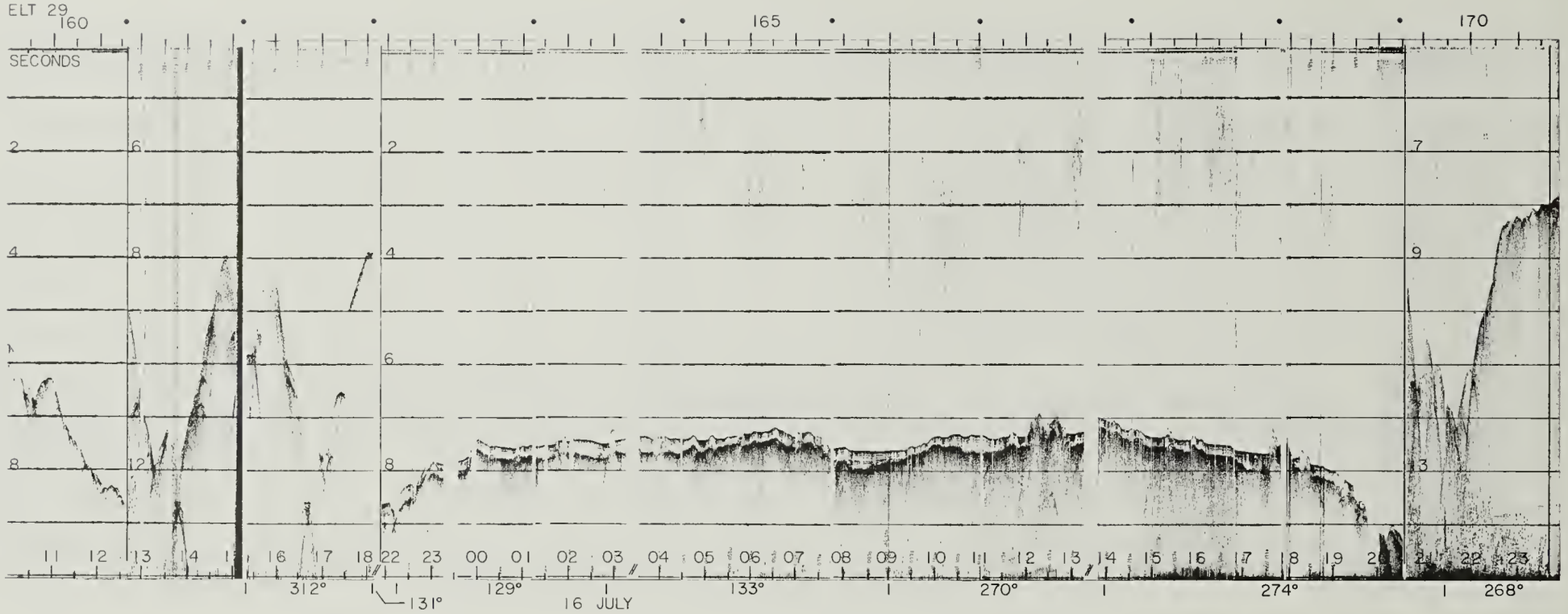
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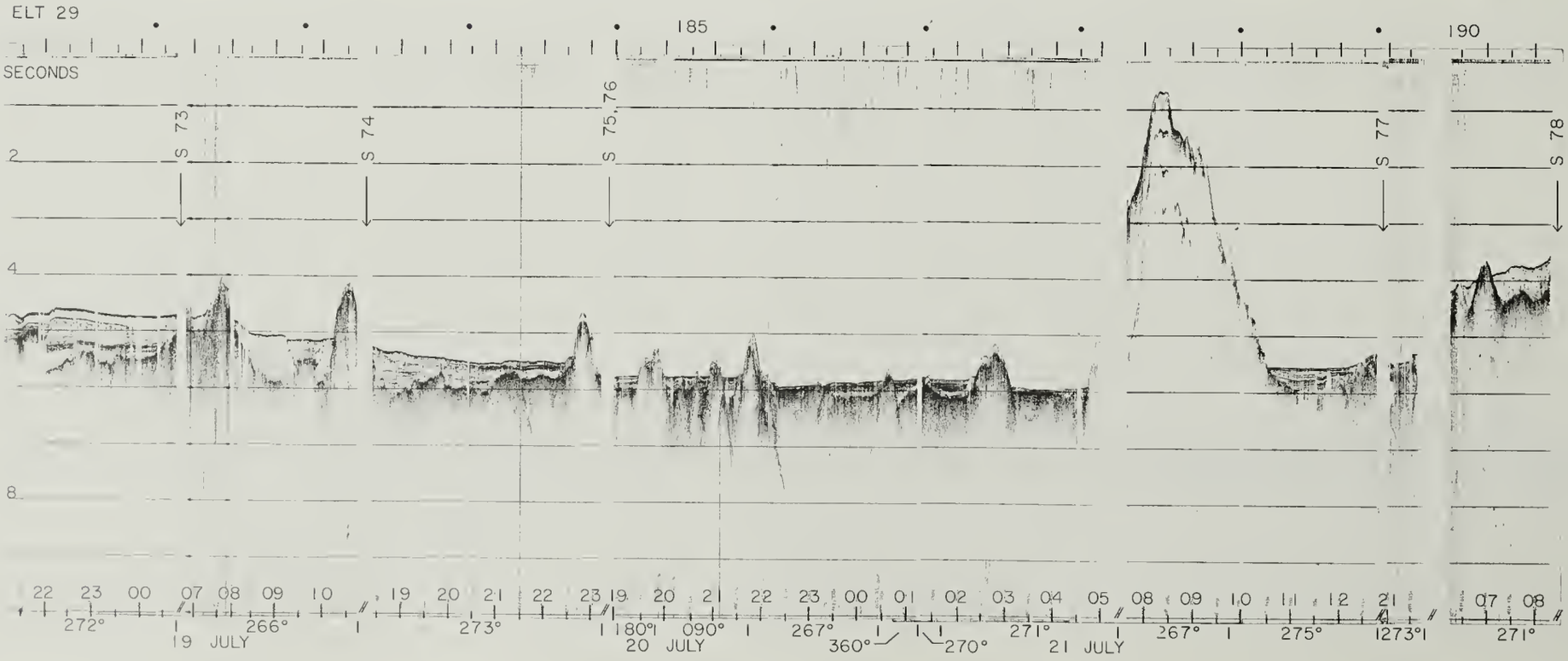
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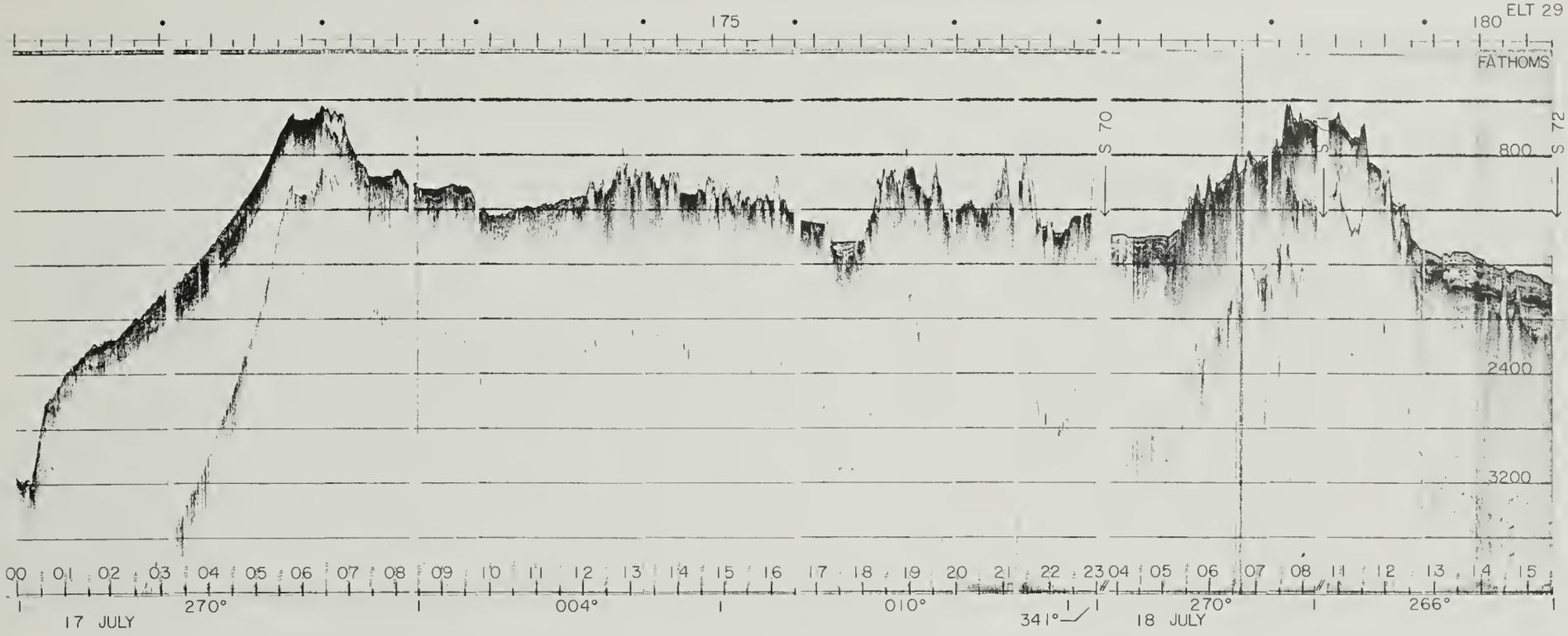
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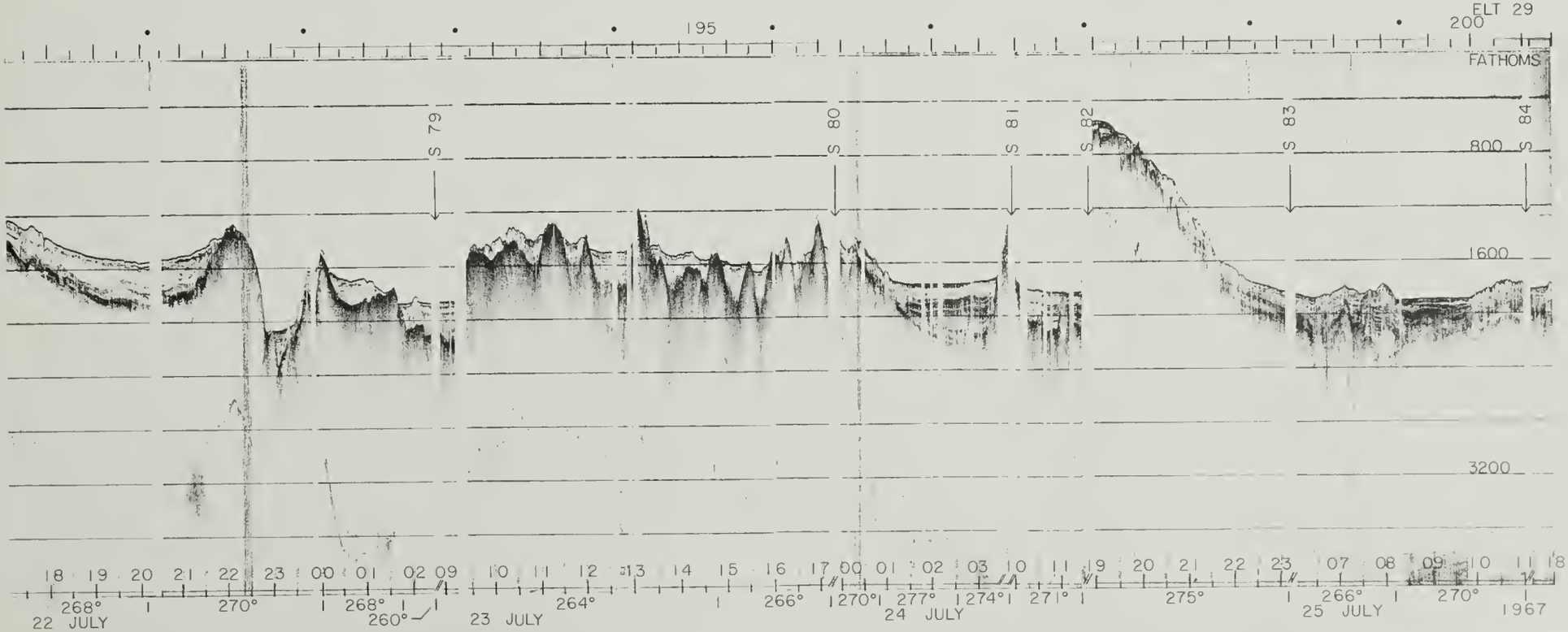
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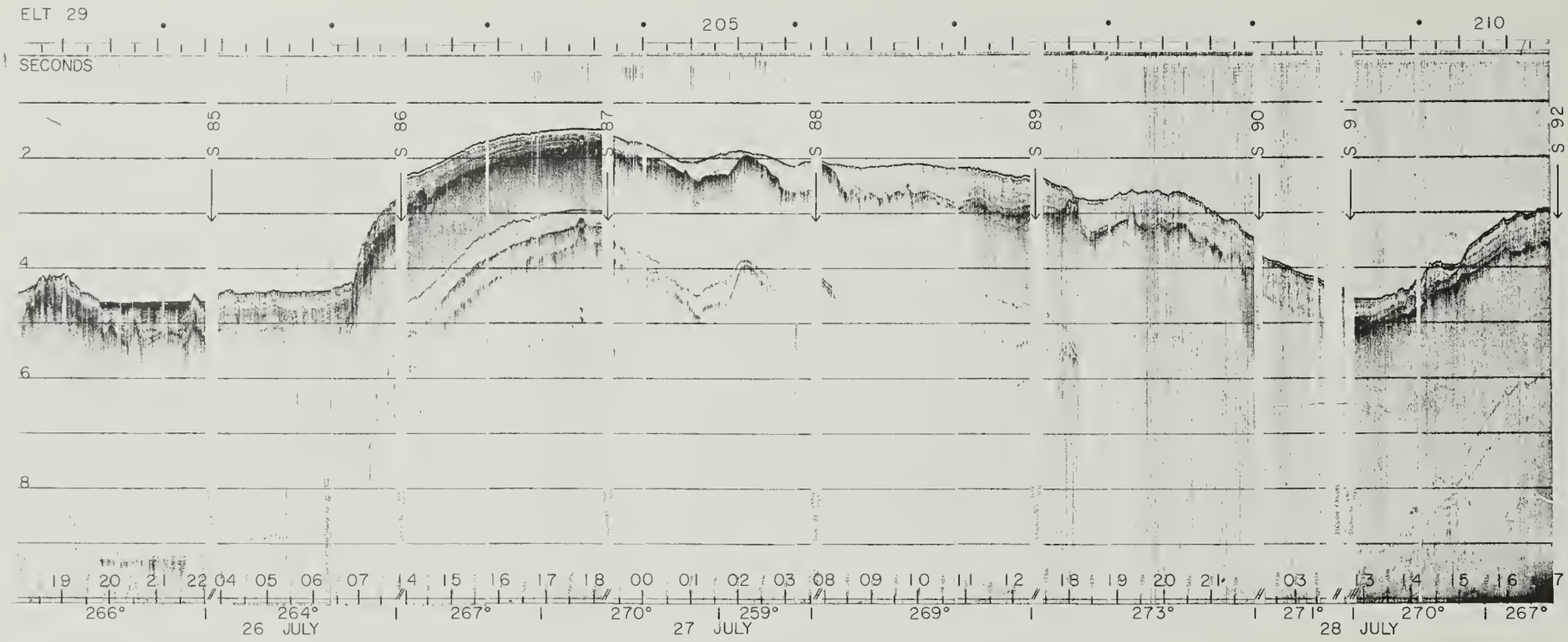
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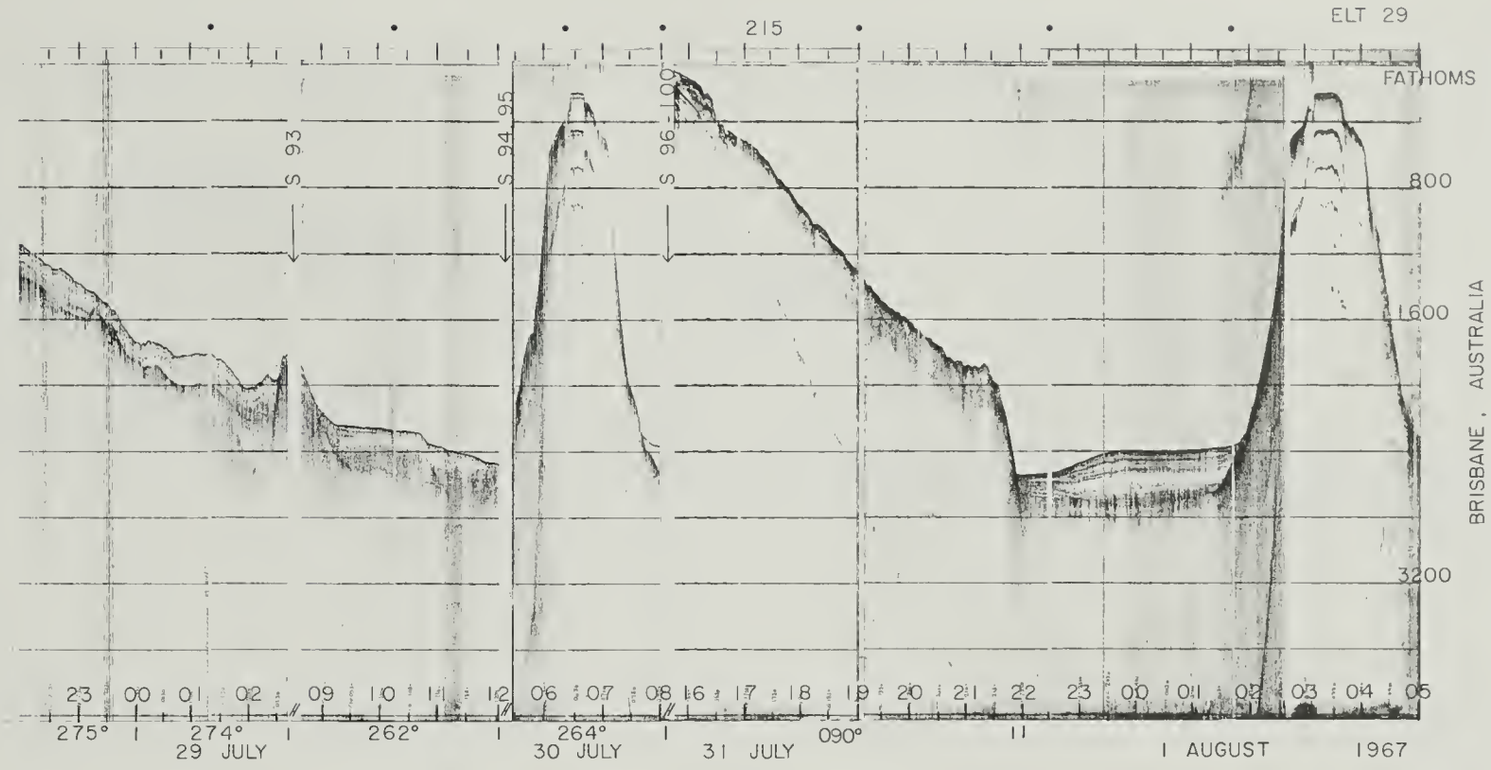
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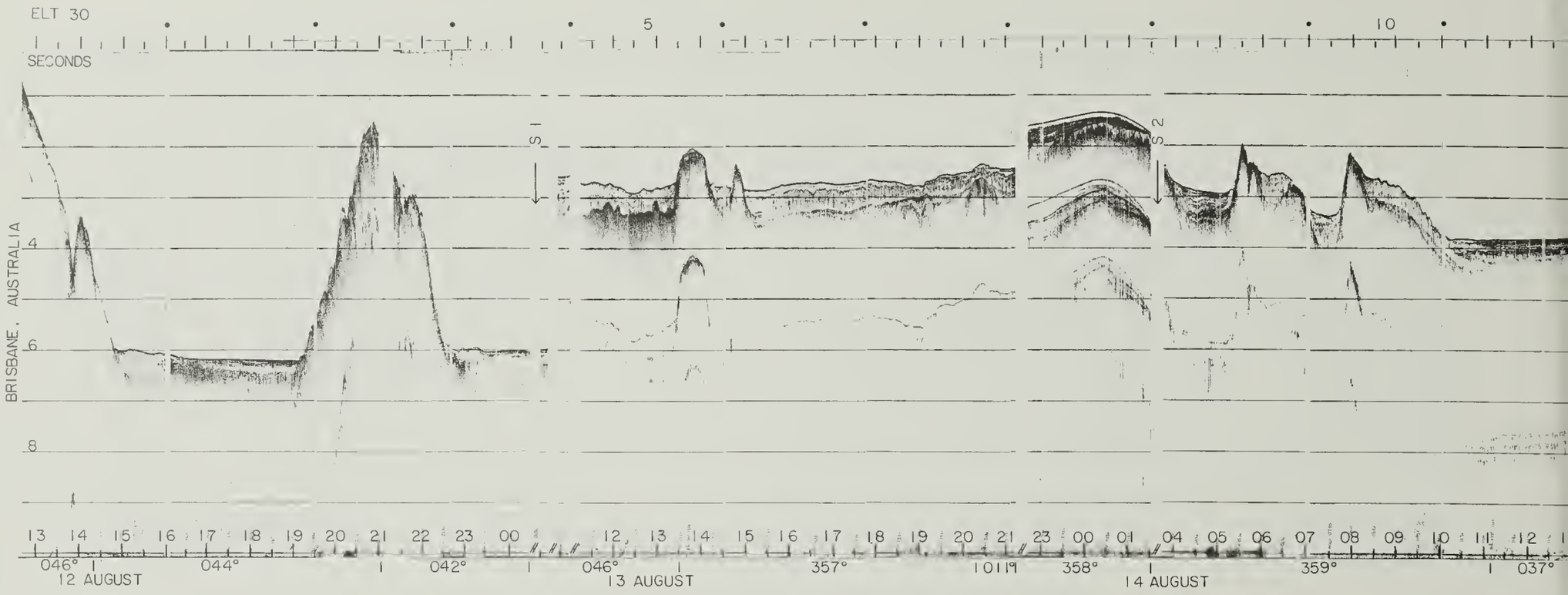
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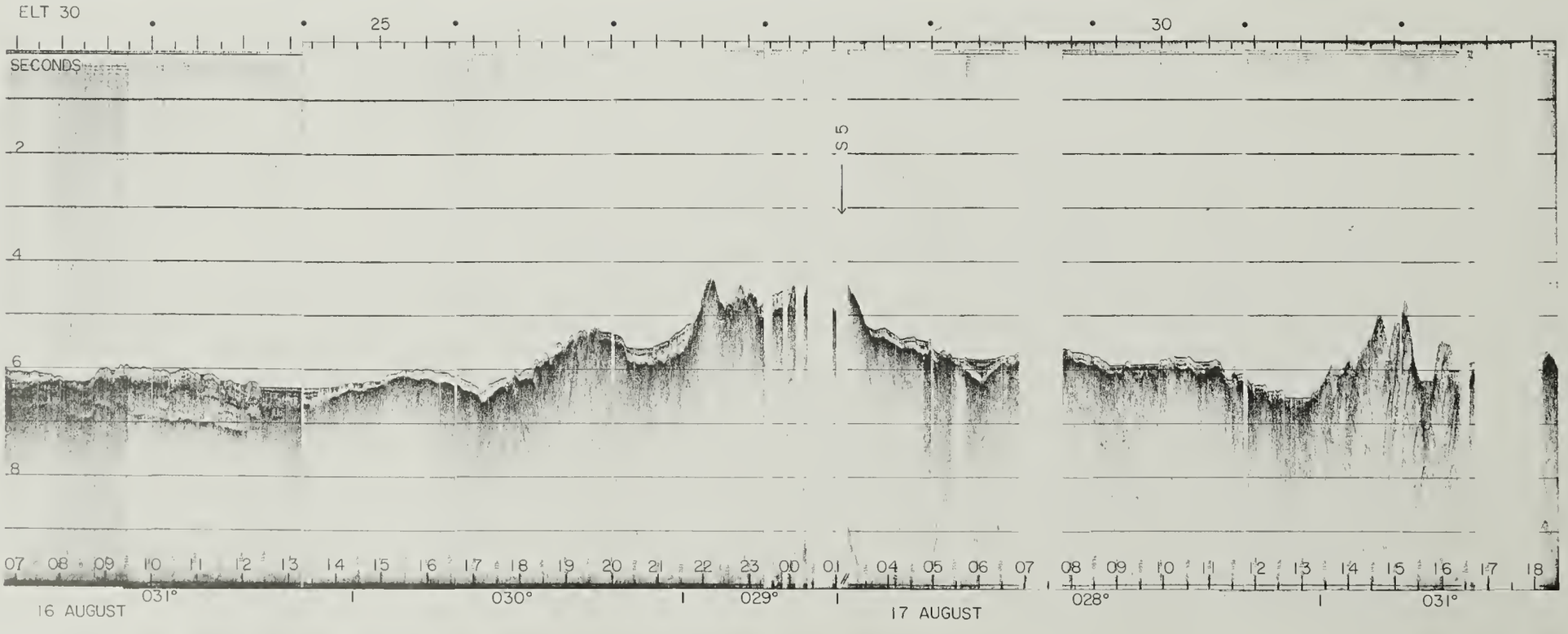
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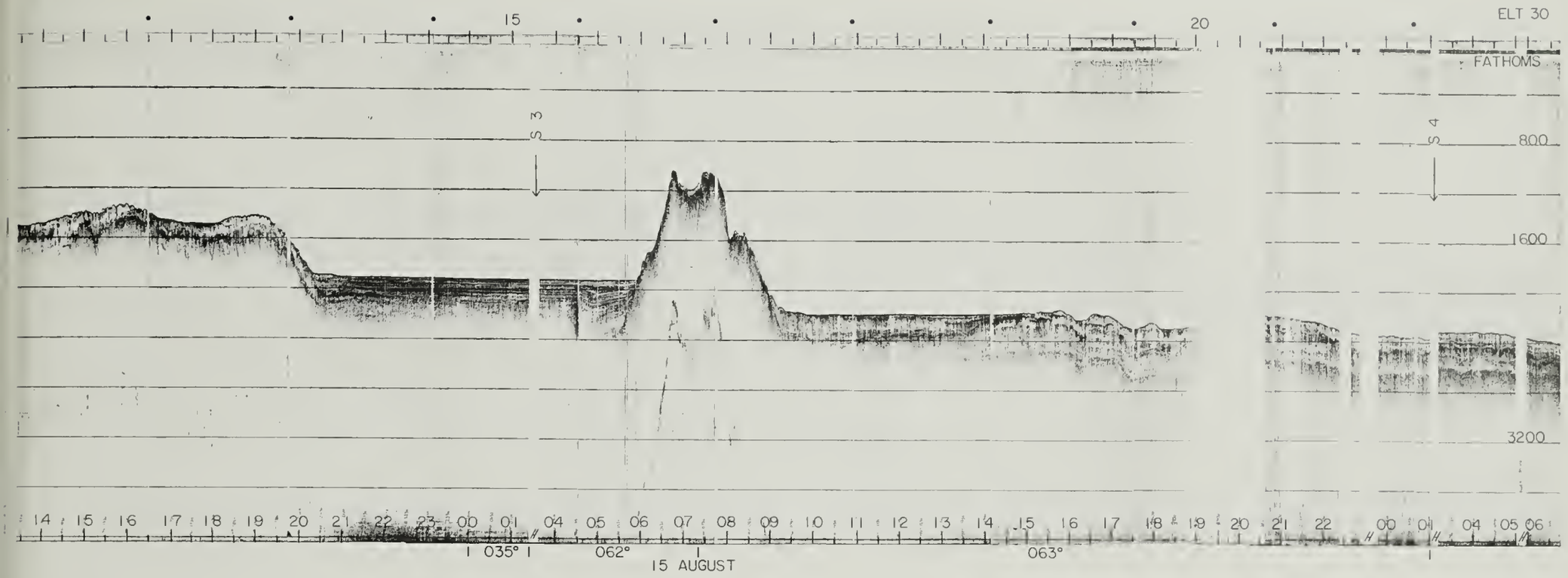
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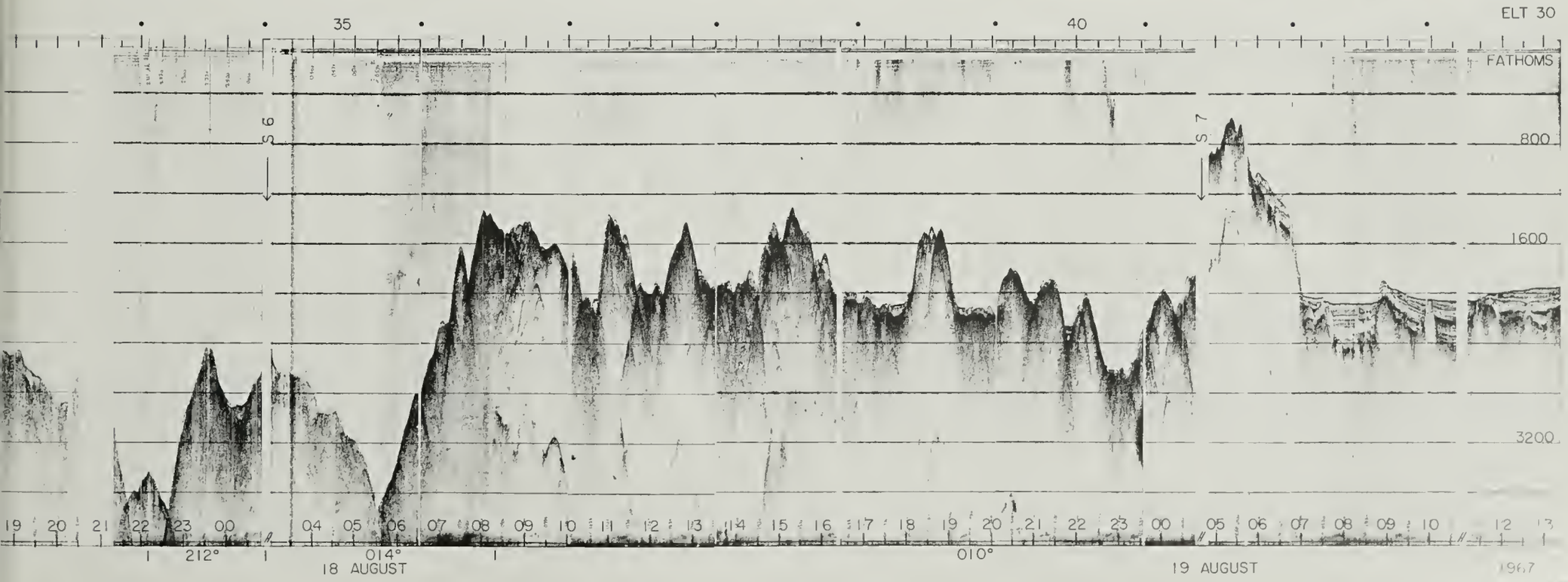
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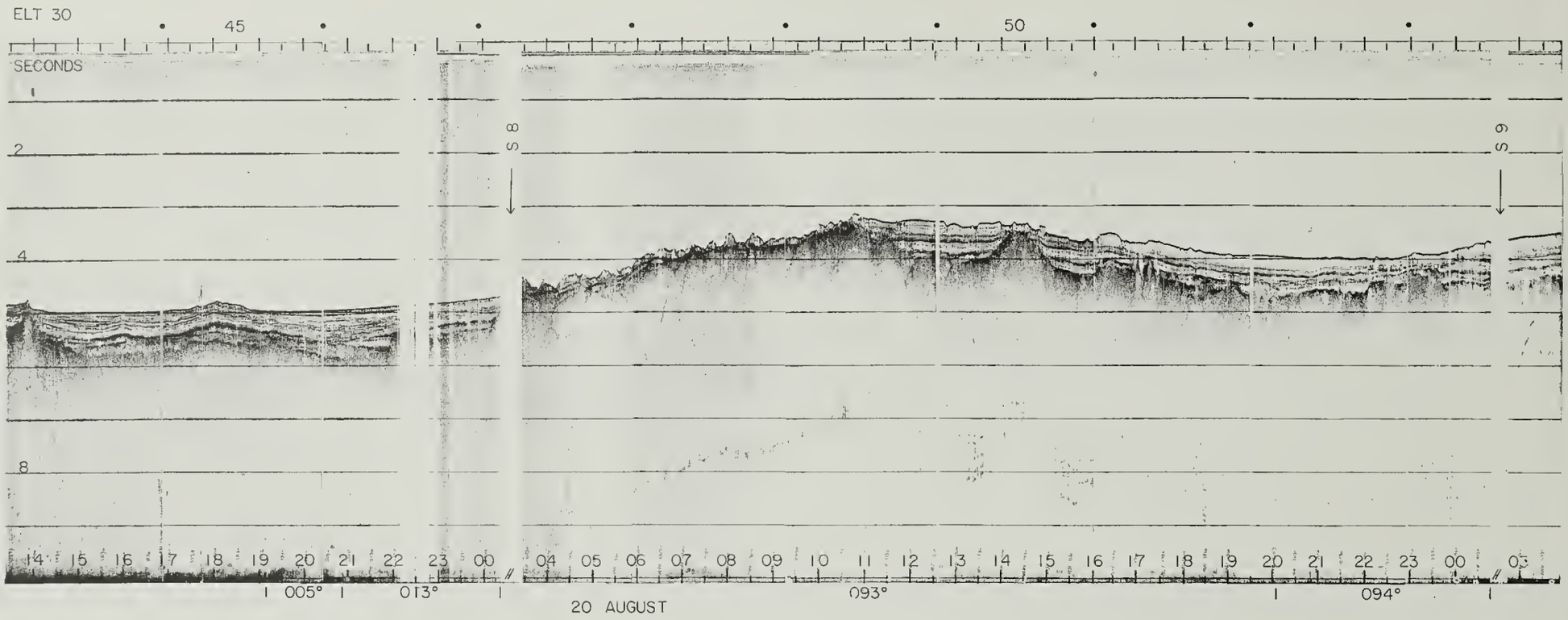
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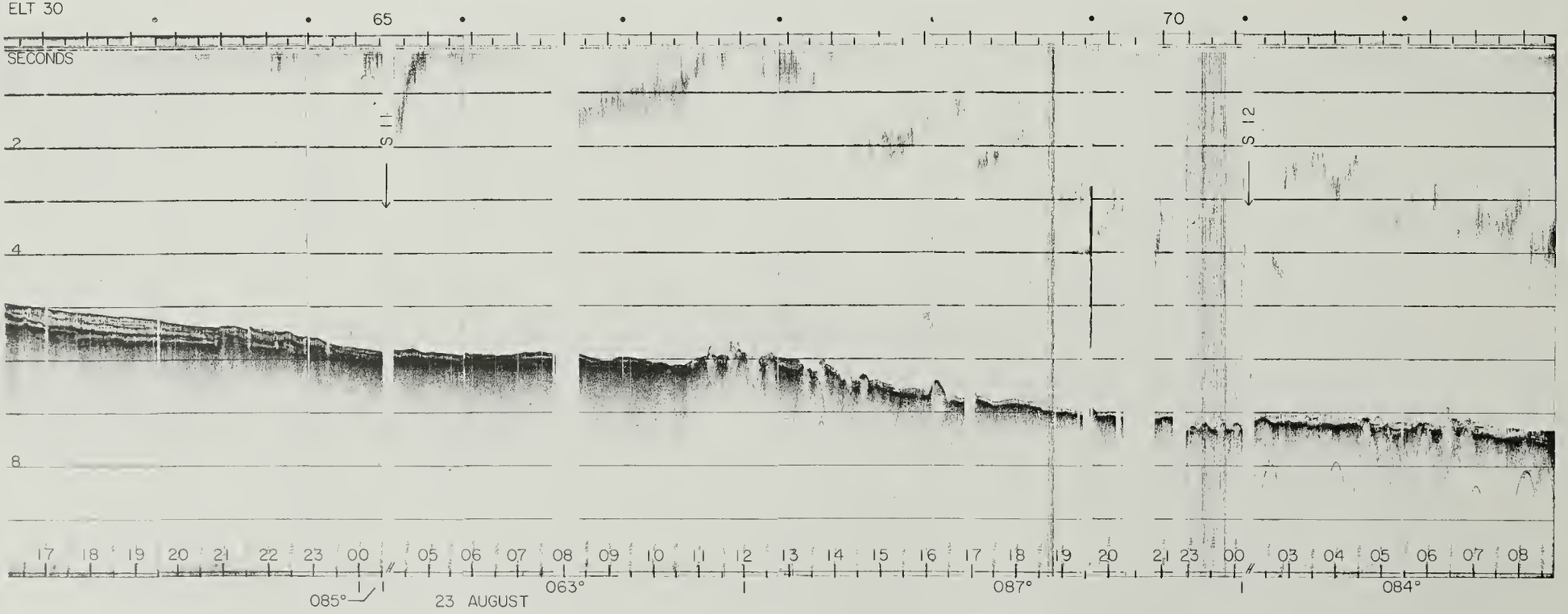
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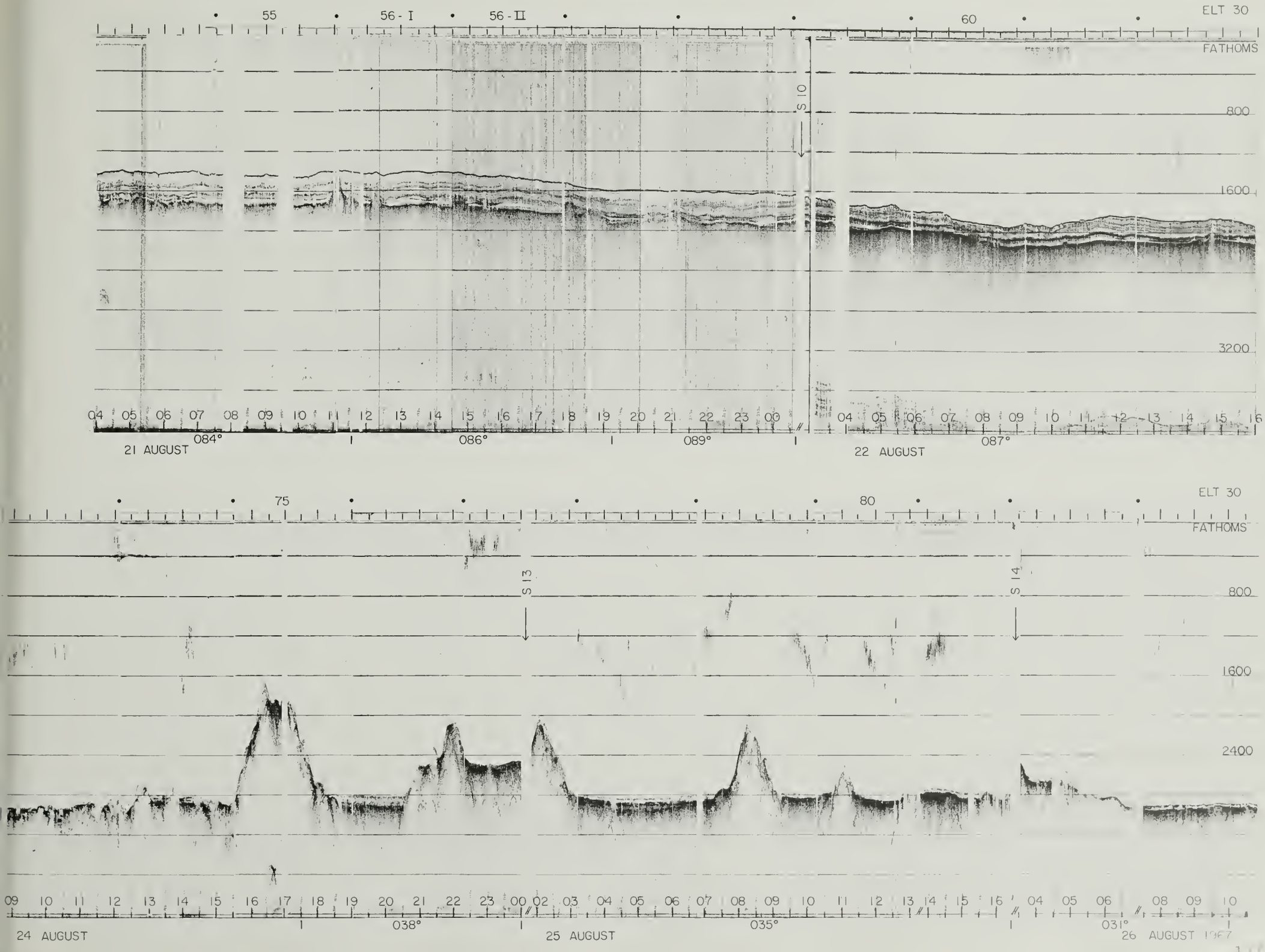
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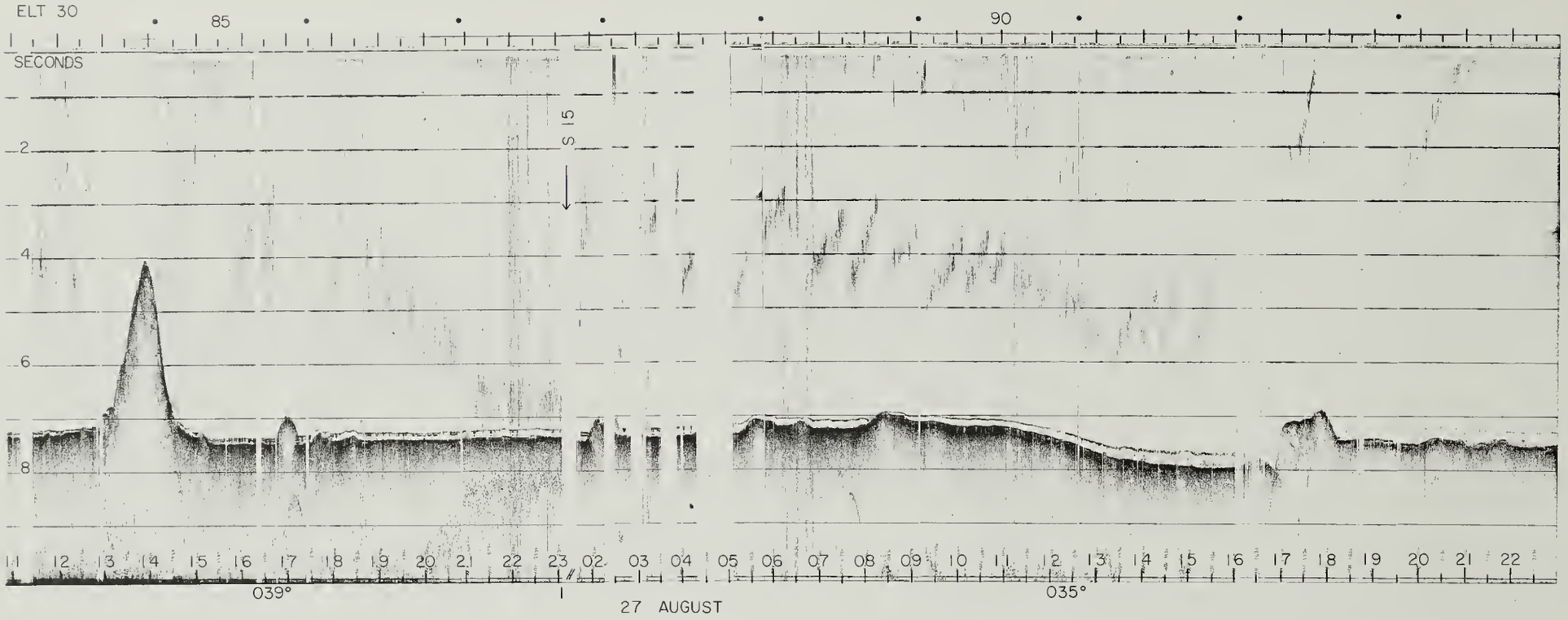
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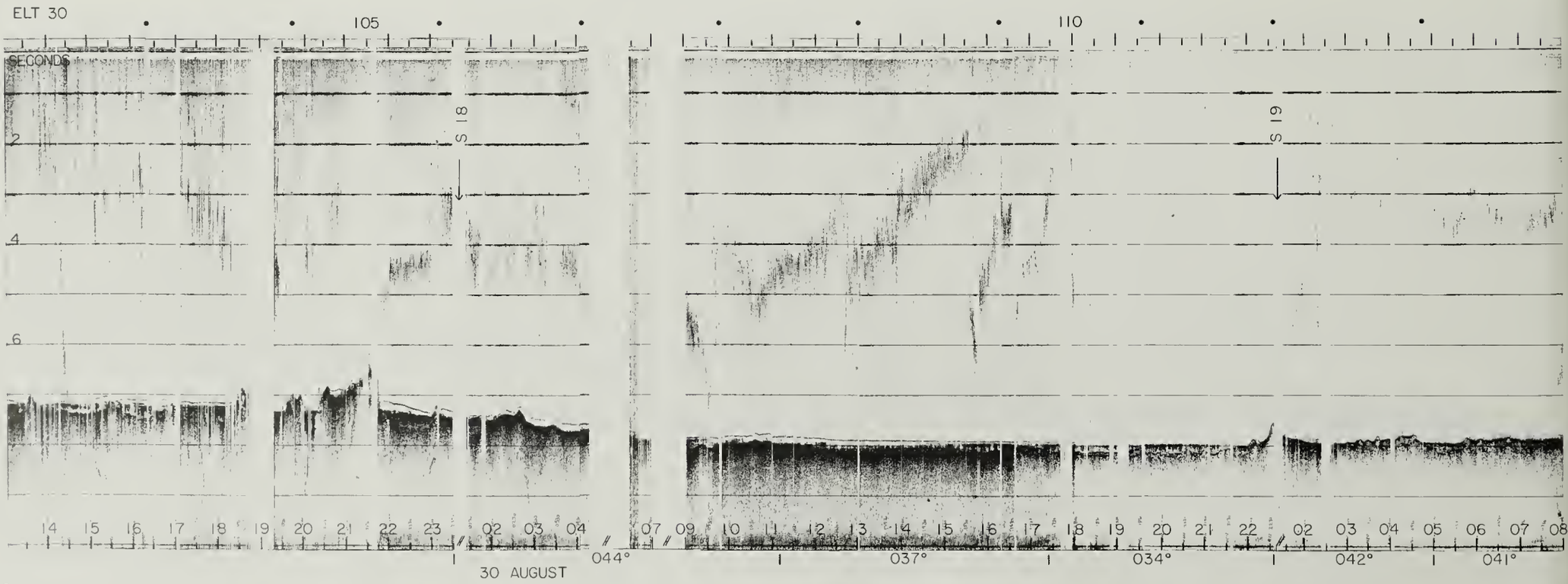
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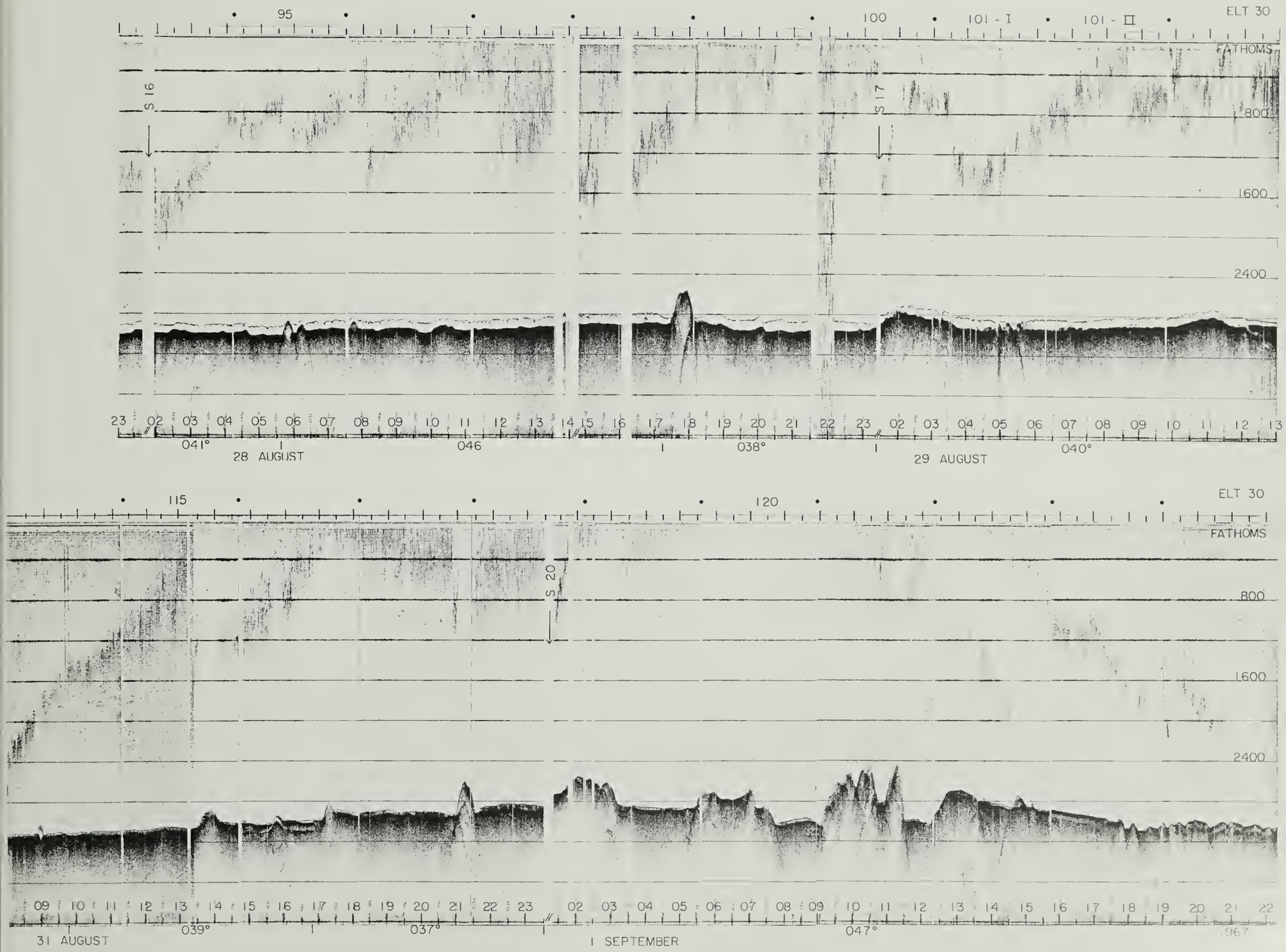
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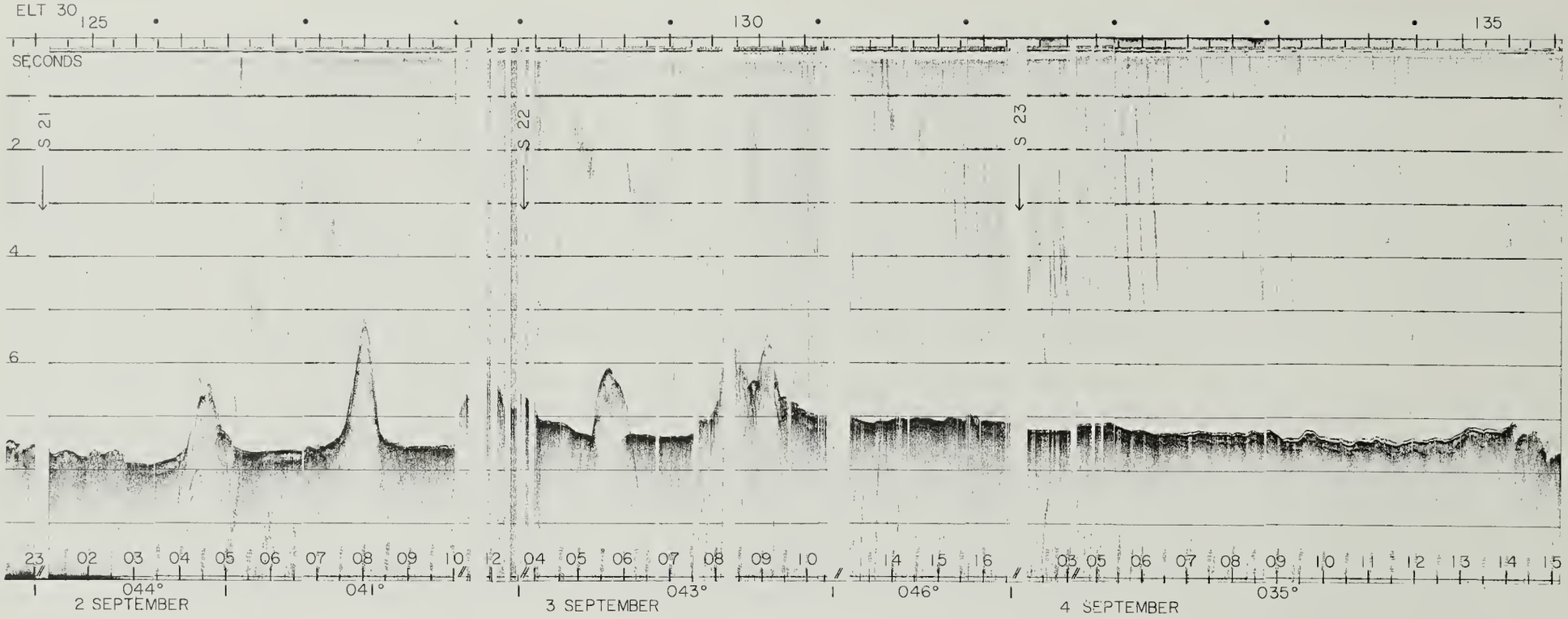
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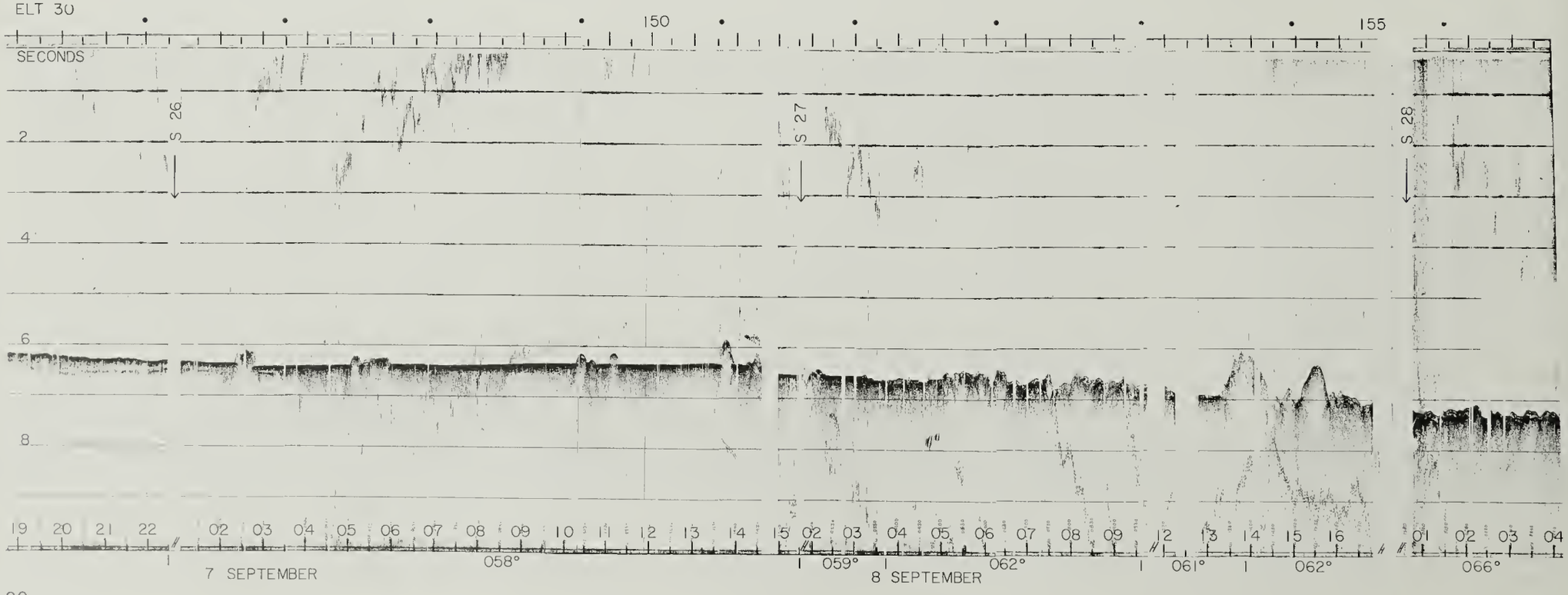
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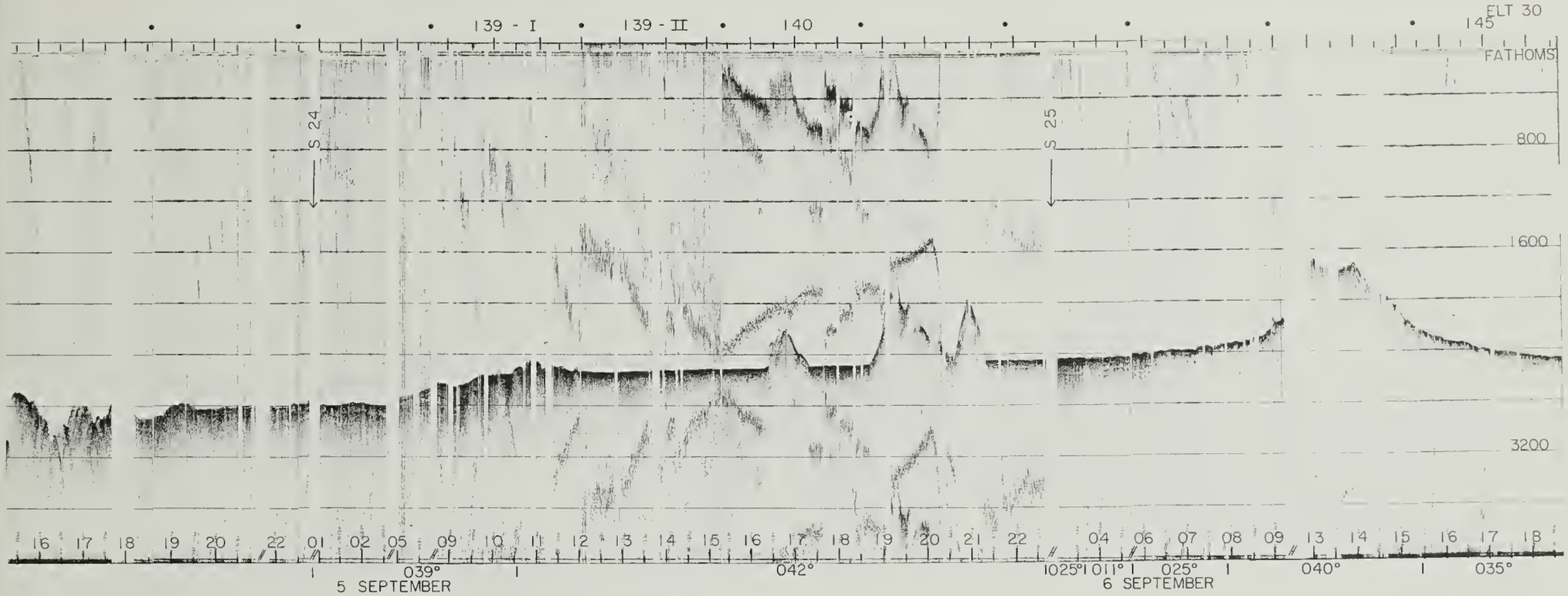
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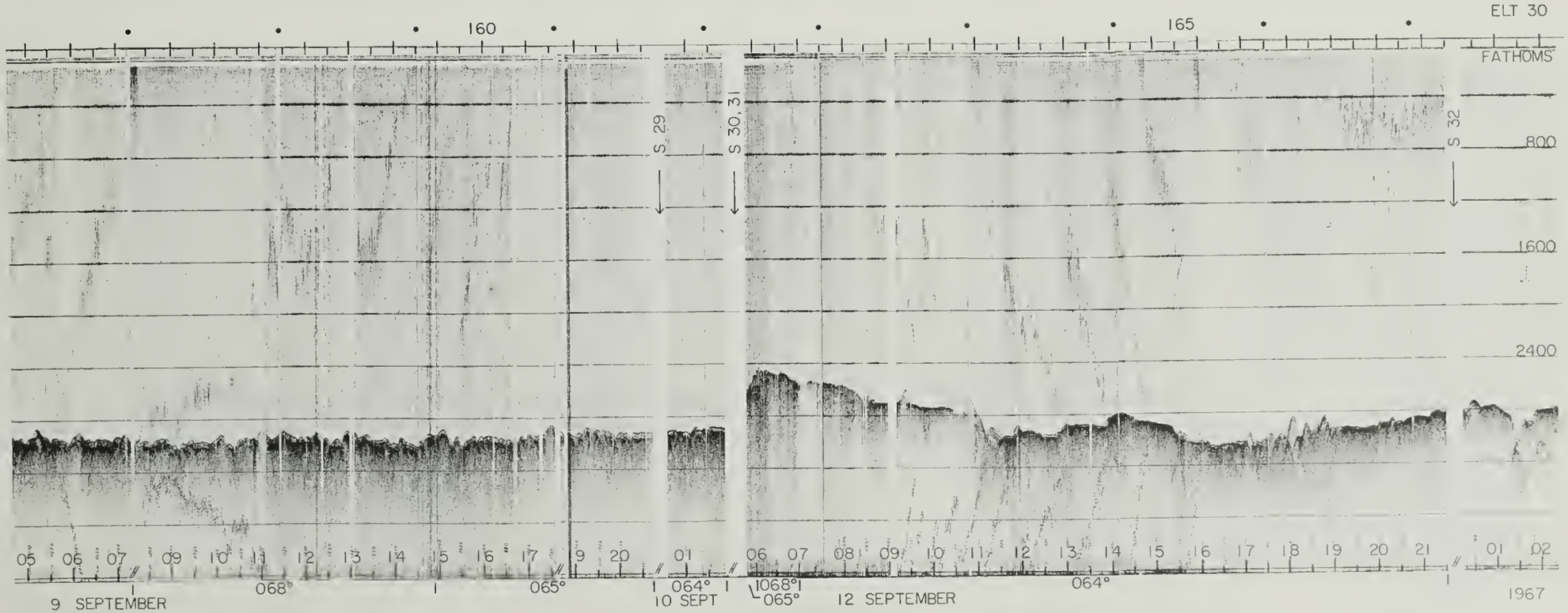
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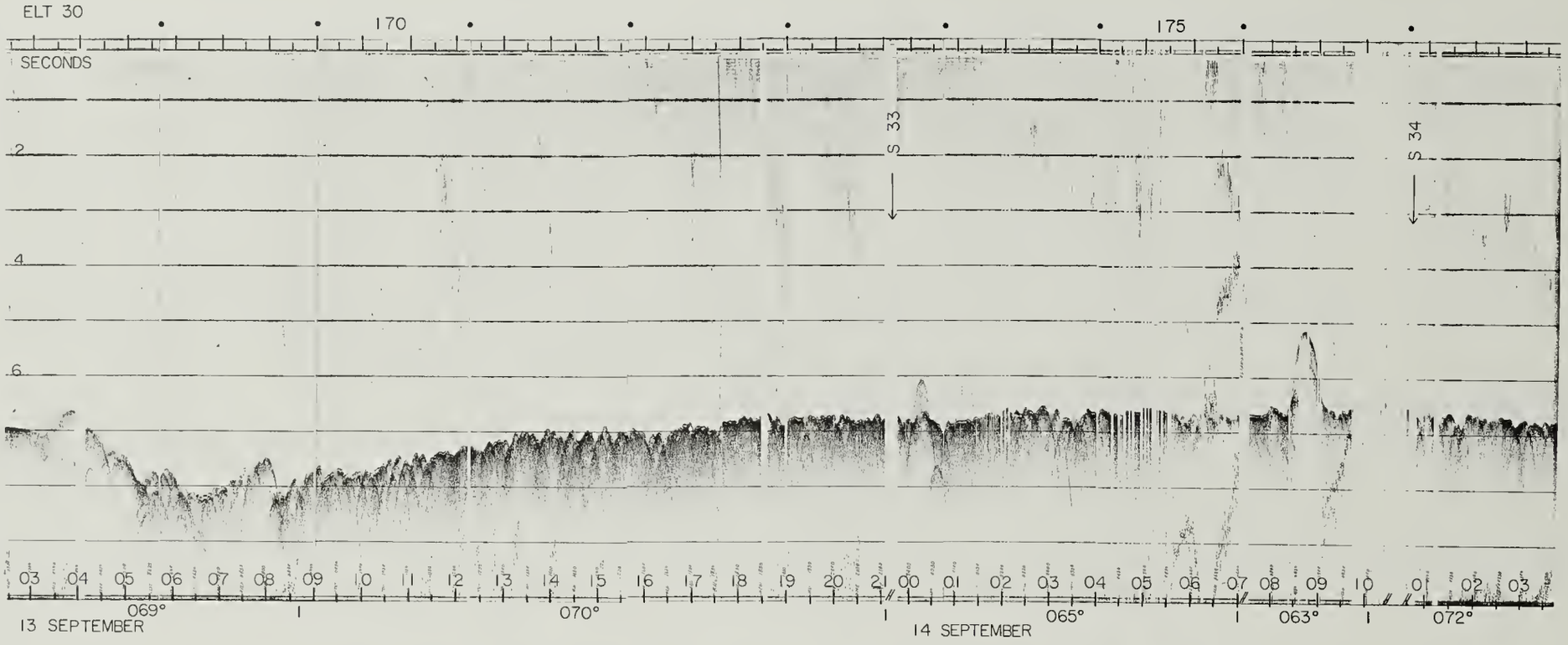
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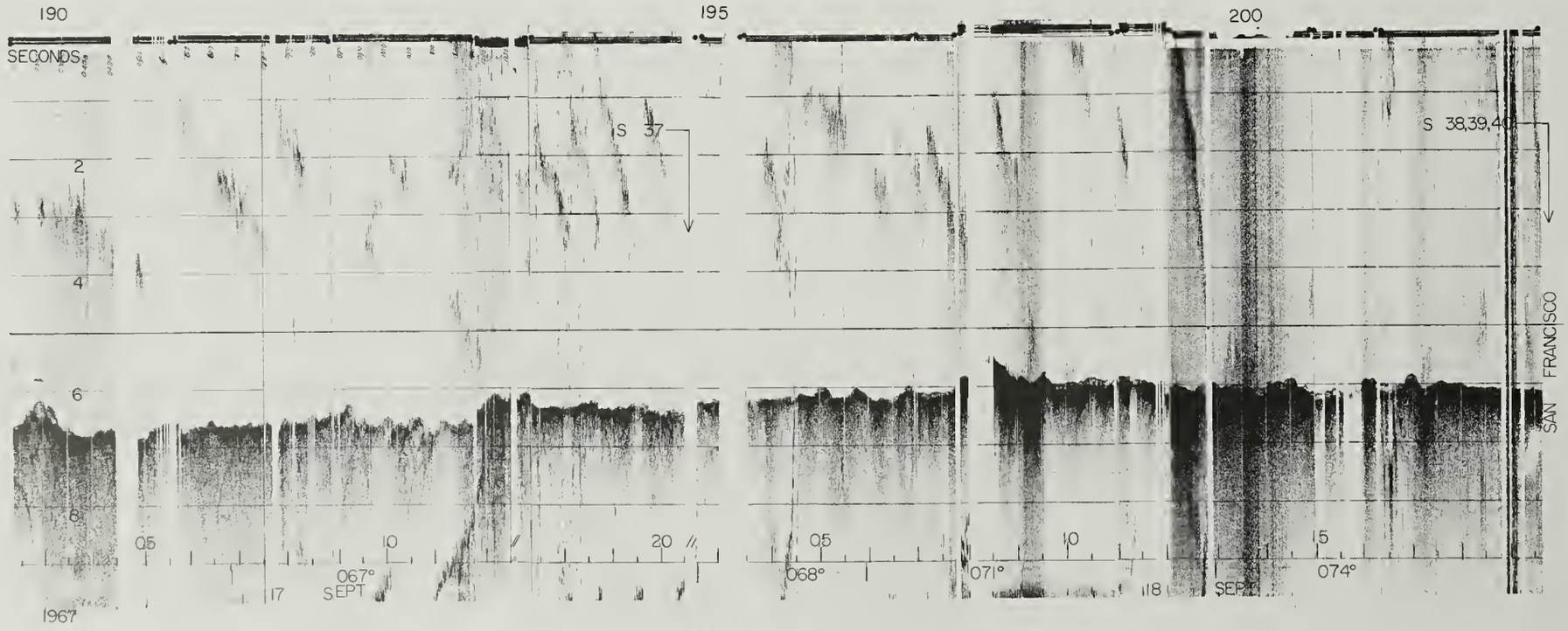
13 SEPTEMBER
14 SEPTEMBER


190
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2
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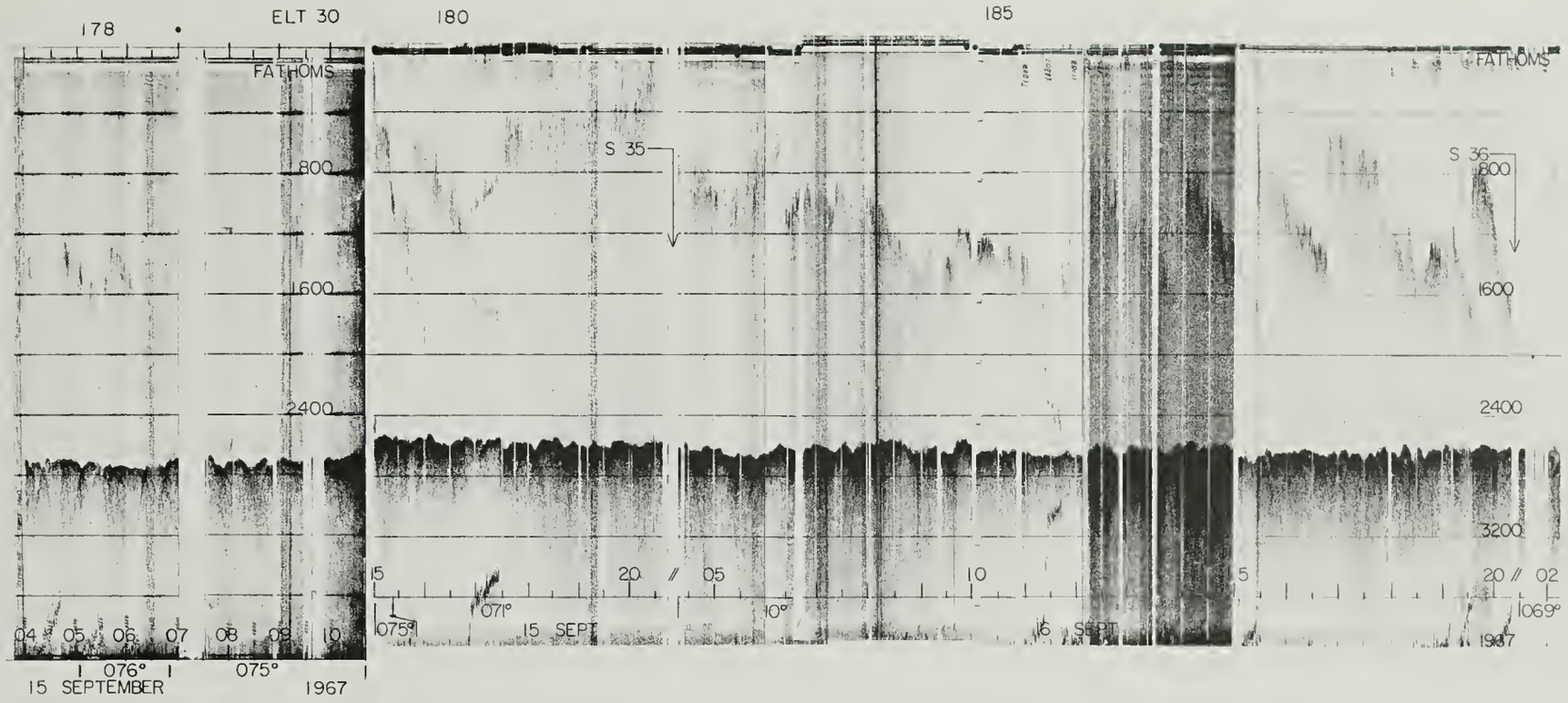
S 37
S 38,39,40
05 10 20
05 10 15
067°
068°
071°
074°
17 SEPT
18 SEPT
1967
SAN FRANCISCO


178
ELT 30
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FATHOMS
800
1600
2400
3200
S 35
S 36
04 05 06 07 08 09 10
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075°
15 SEPTEMBER
1967
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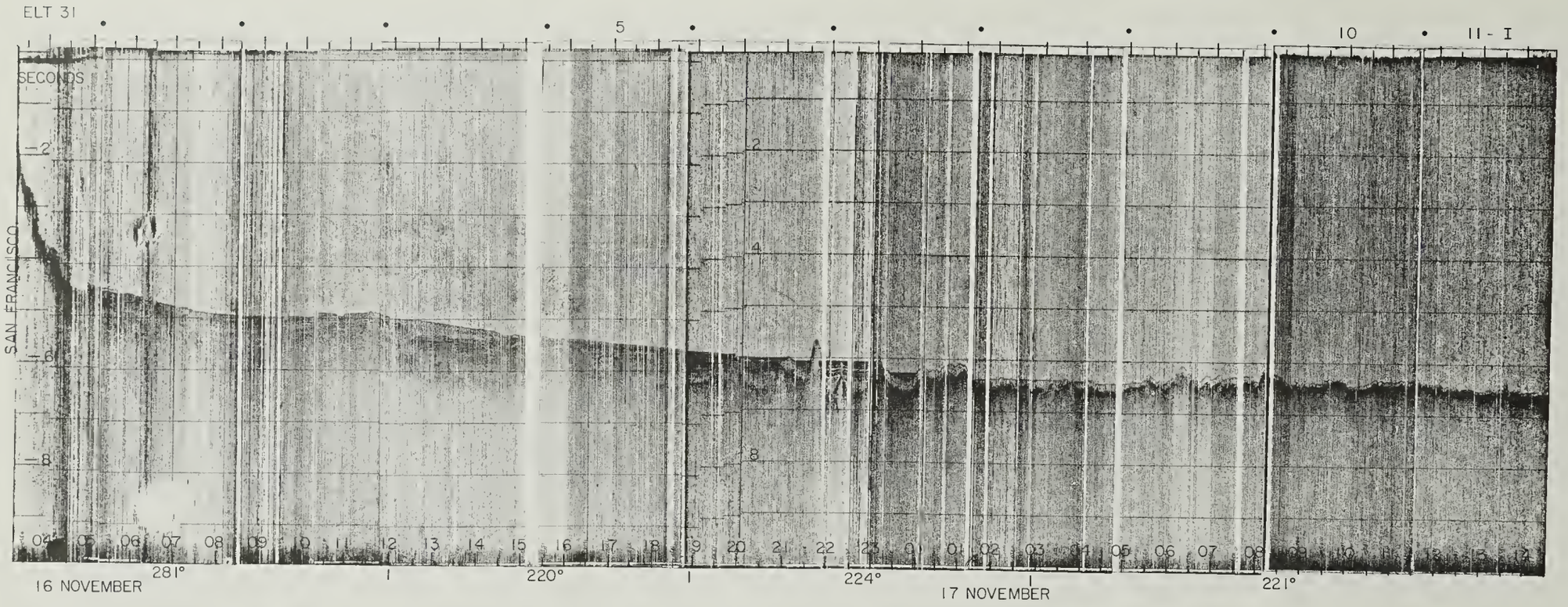
071°
10°
075°
15 SEPT
16 SEPT
5 20 // 02
069°
1967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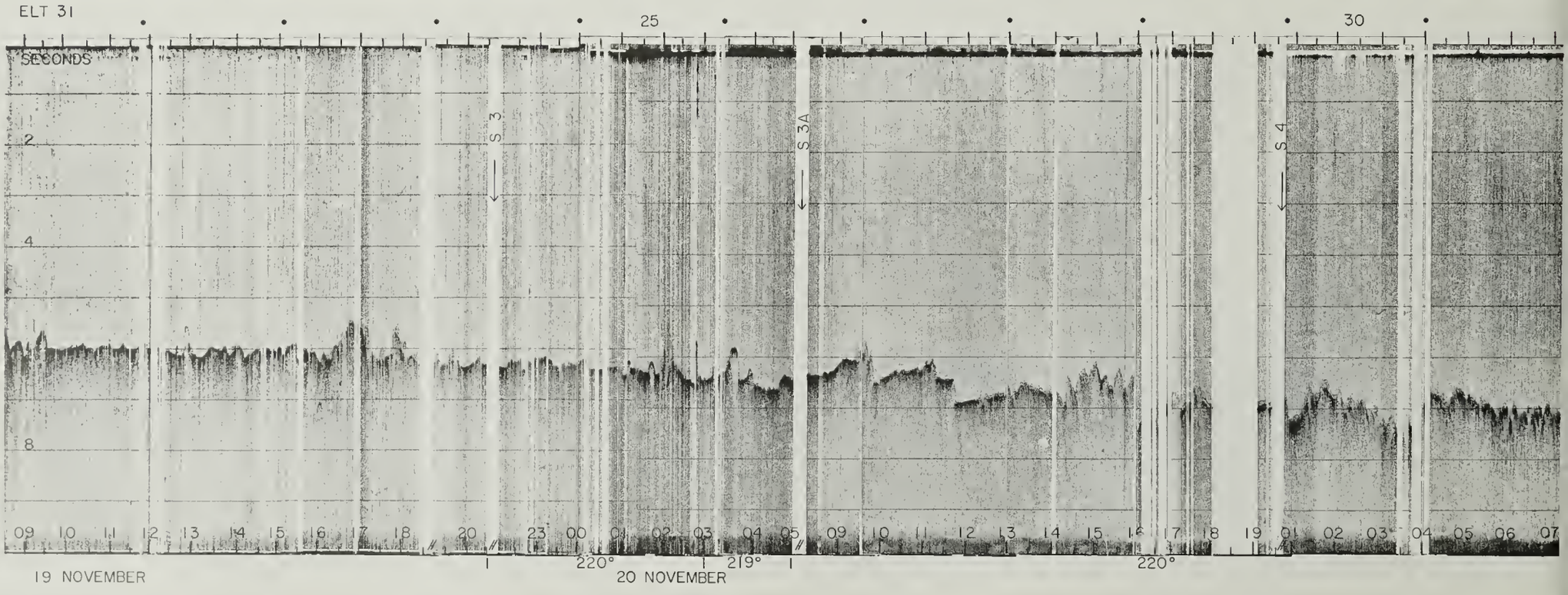
SECONDS
SAN FRANCISCO
16 NOVEMBER
281°
220°
224°
17 NOVEMBER
221°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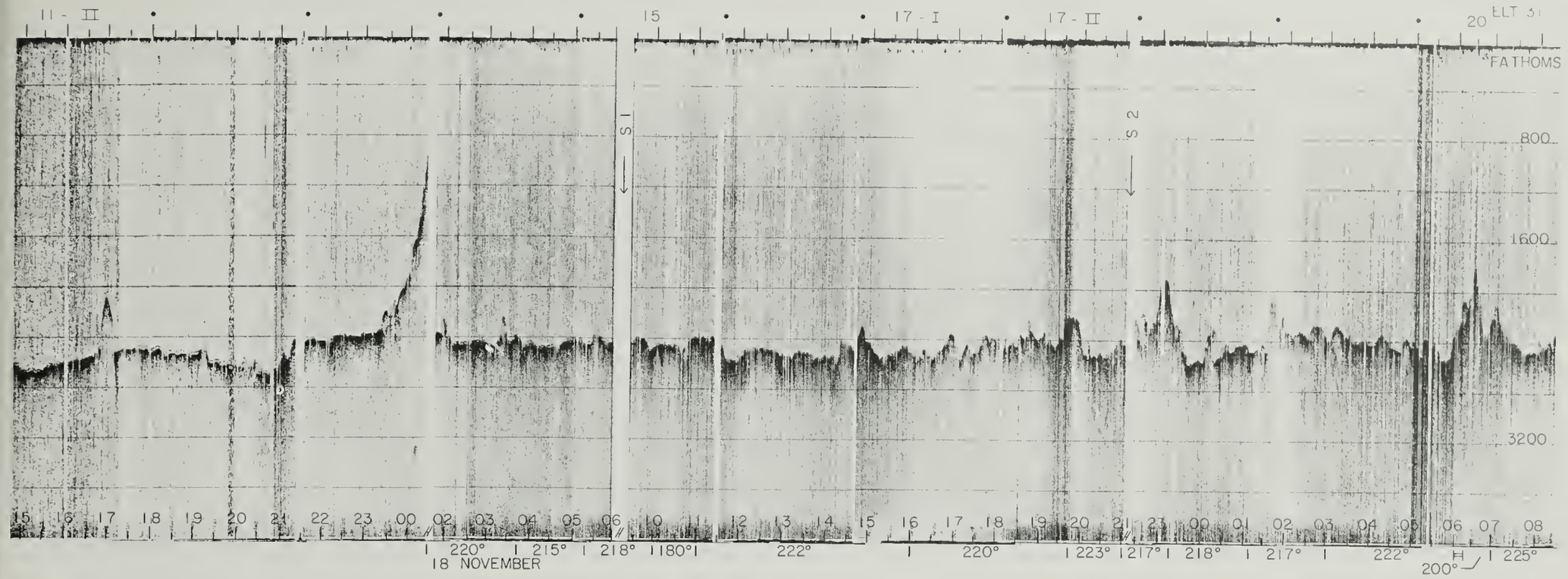
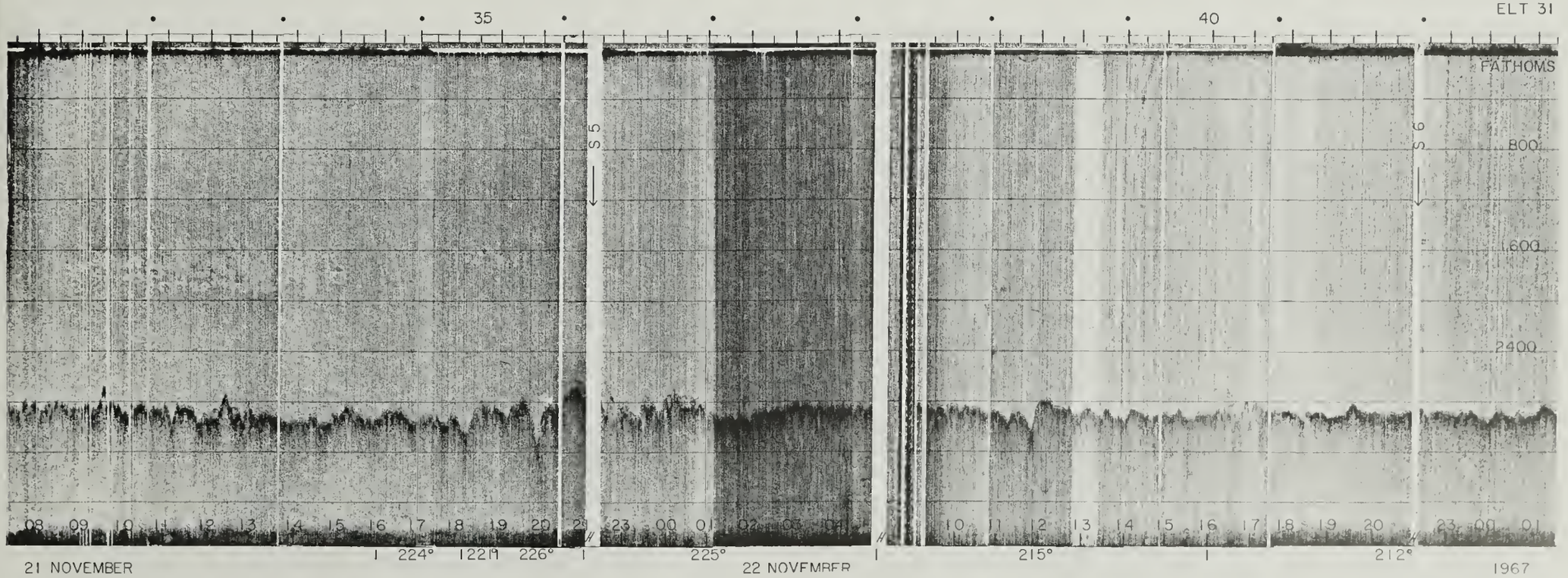
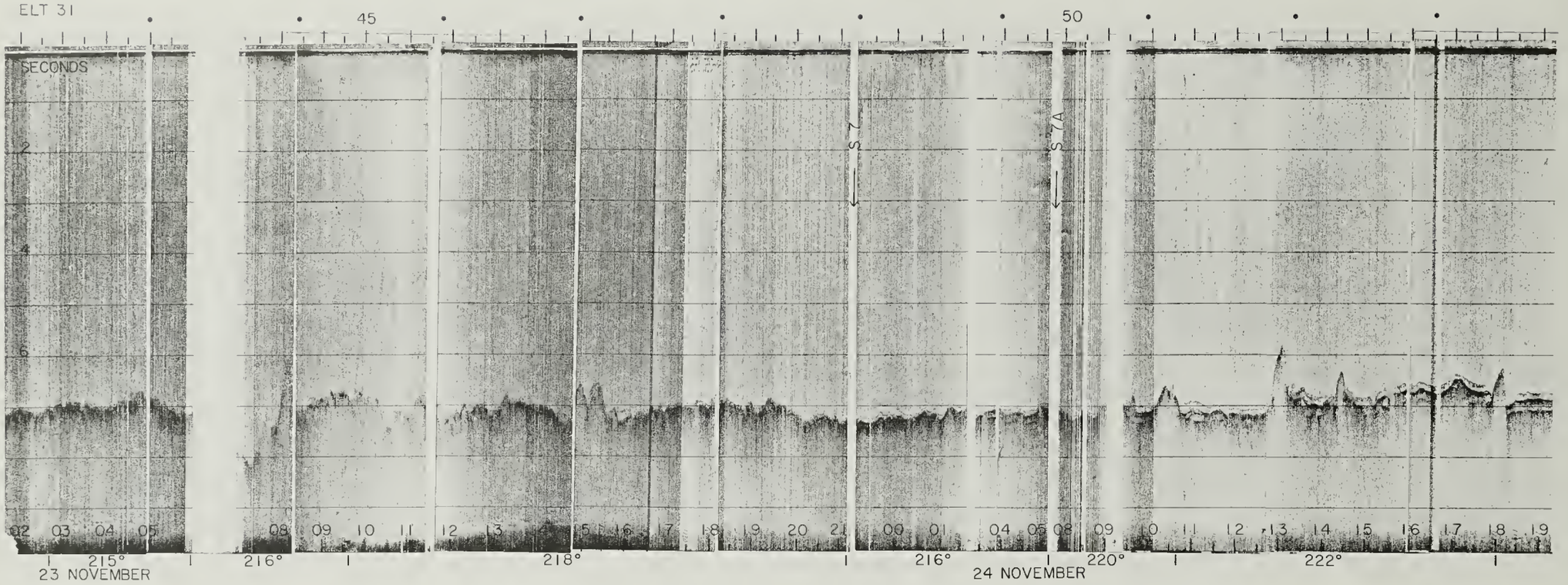
SECONDS
S 3
S 3A
S 4
19 NOVEMBER
220°
219°
20 NOVEMBER
220°


11 - II
15
17 - I
17 - II
20
ELT 31
FATHOMS
800
1600
3200
S 1
S 2
15 16 17 18 19 20 21 22 23 00 02 03 04 05 06 10 11 12 13 14 15 16 17 18 19 20 21 23 00 01 02 03 04 05 06 07 08
220° 215° 218° 180° 222° 220° 223° 217° 218° 217° 222° 200° 225°
18 NOVEMBER


35
40
ELT 31
FATHOMS
800
1600
2400
S 5
S 6
08 09 10 11 12 13 14 15 16 17 18 19 20 23 00 01 02 03 04 10 11 12 13 14 15 16 17 18 19 20 23 00 01
224° 221° 226° 225° 215° 212°
21 NOVEMBER
22 NOVEMBER
1967


ELT 31
45
50
SECONDS
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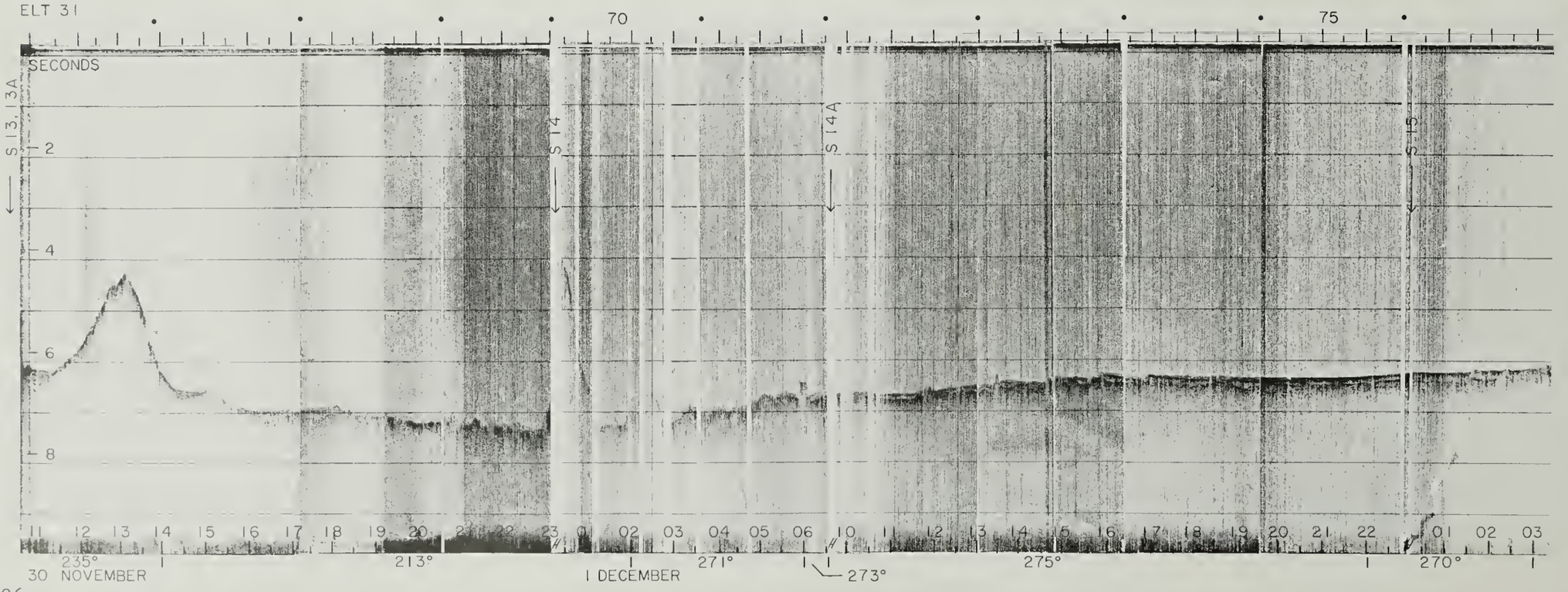
6
S 7
S 7A
02 03 04 05 08 09 10 11 12 13 14 15 16 17 18 19 20 21 00 01 04 05 08 09 10 11 12 13 14 15 16 17 18 19
215°
216°
218°
216°
220°
222°
23 NOVEMBER
24 NOVEMBER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70
75
SECONDS
S 13, 13A
S 14
S 14A
S 15
2
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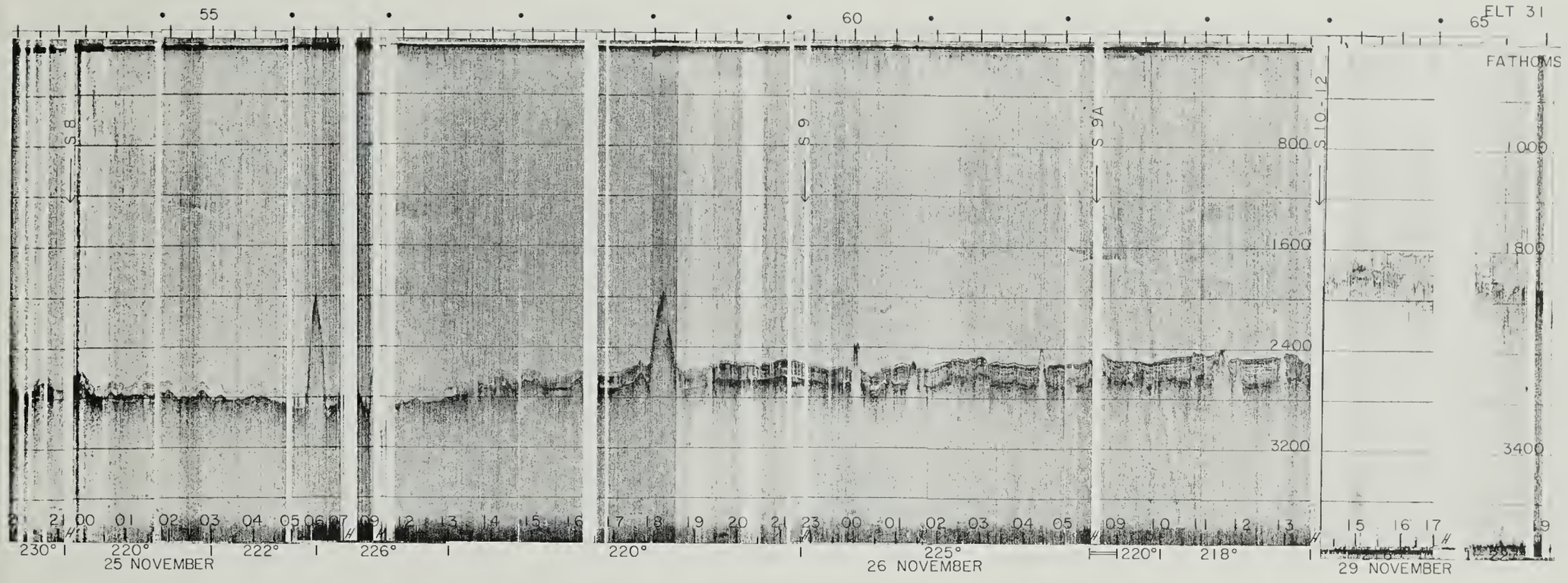
6
8
11 12 13 14 15 16 17 18 19 20 21 22 23 00 02 03 04 05 06 10 11 12 13 14 15 16 17 18 19 20 21 22 01 02 03
235°
213°
271°
273°
275°
270°
30 NOVEMBER
1 DECEMBER


55
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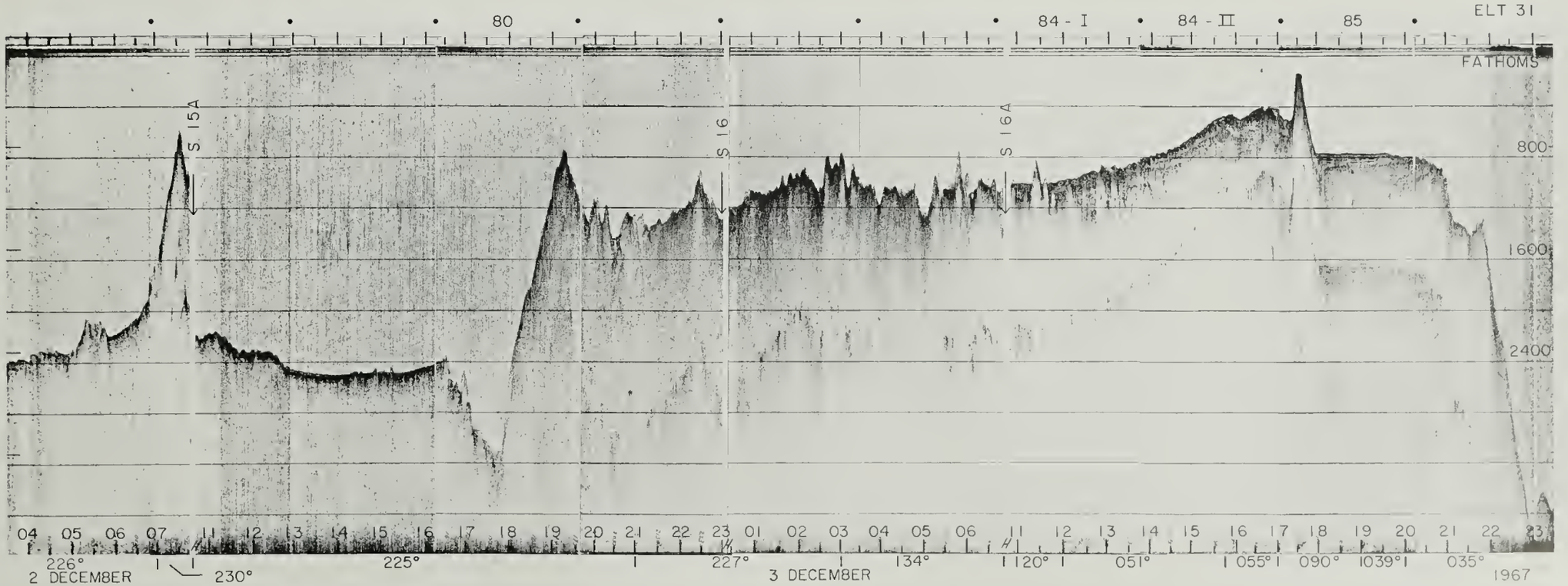
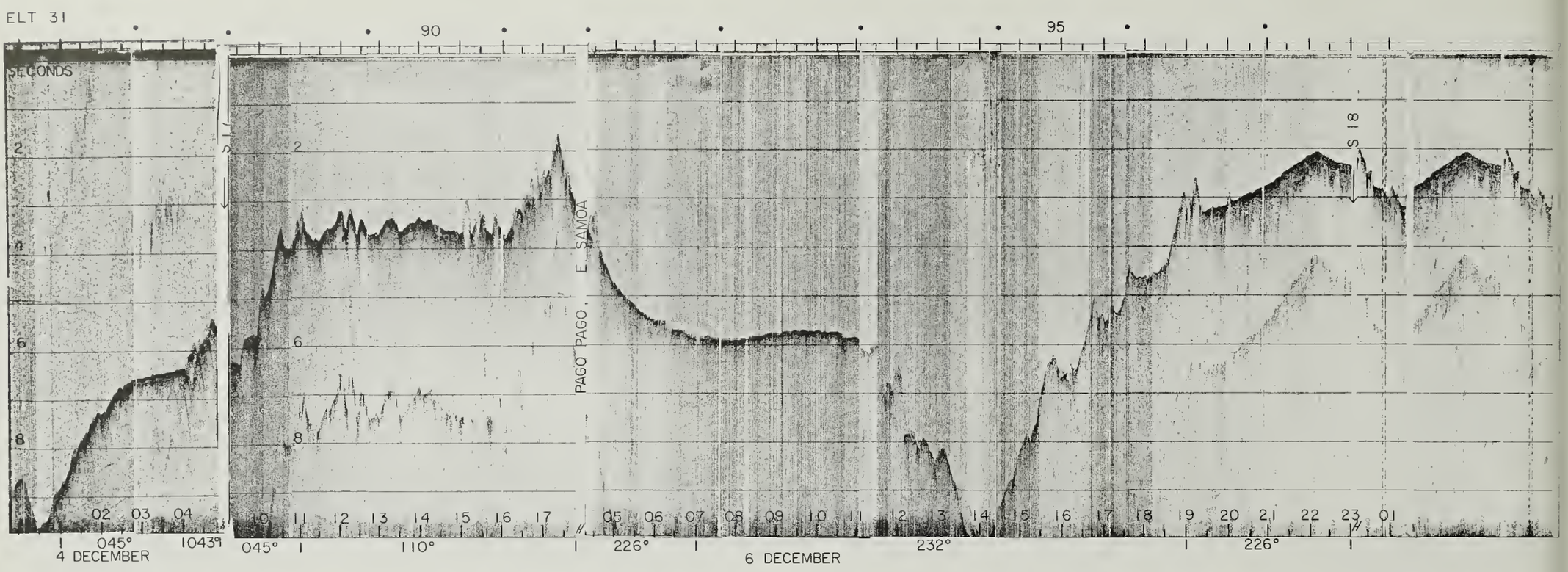
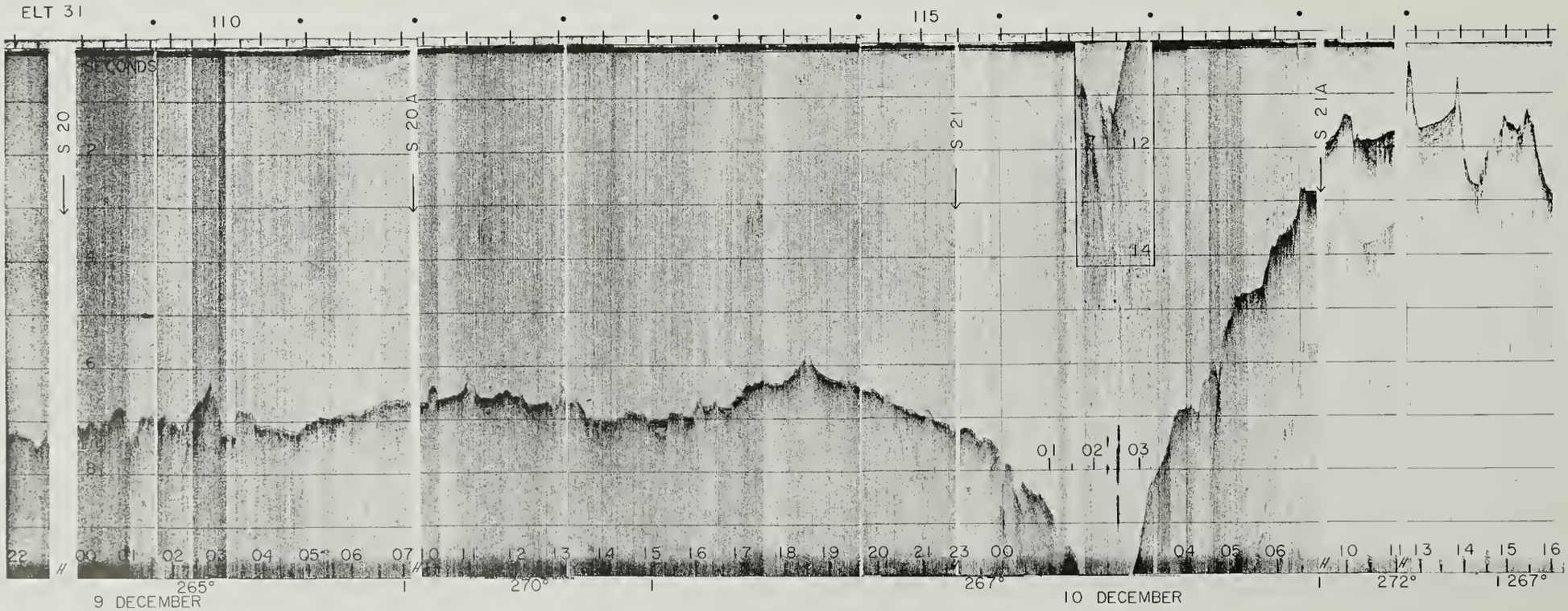
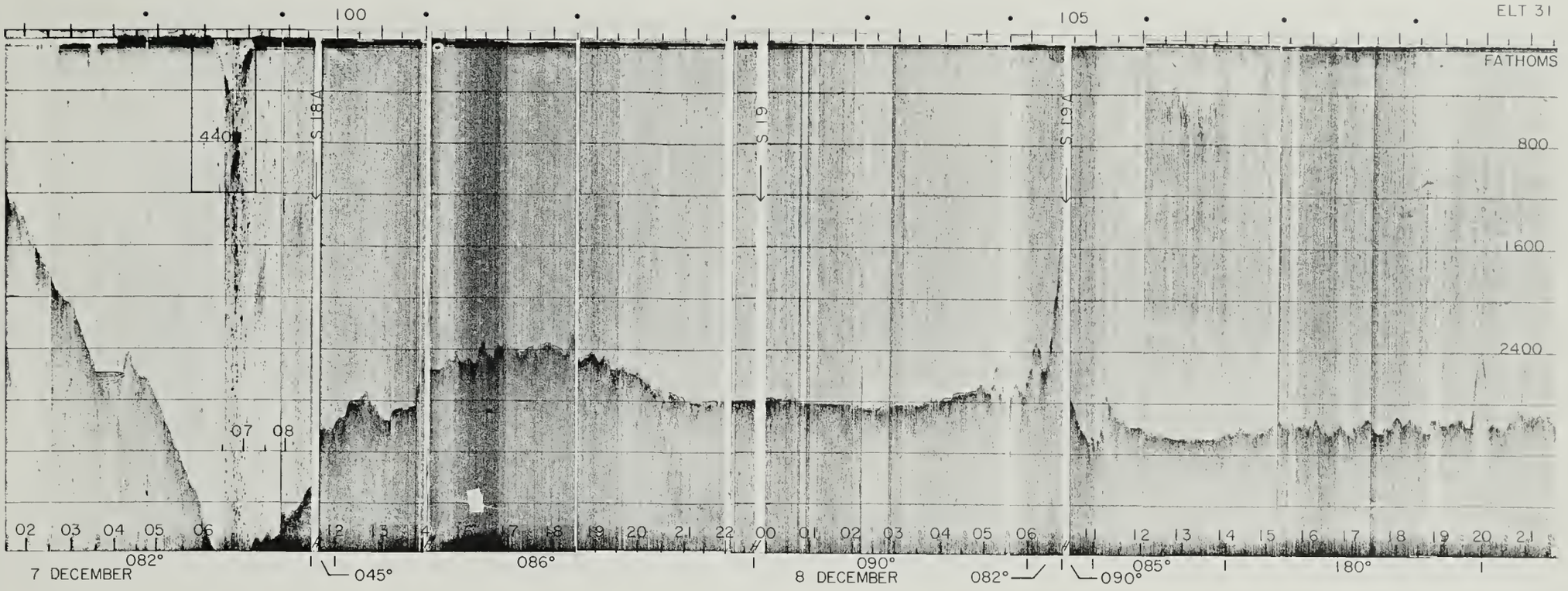
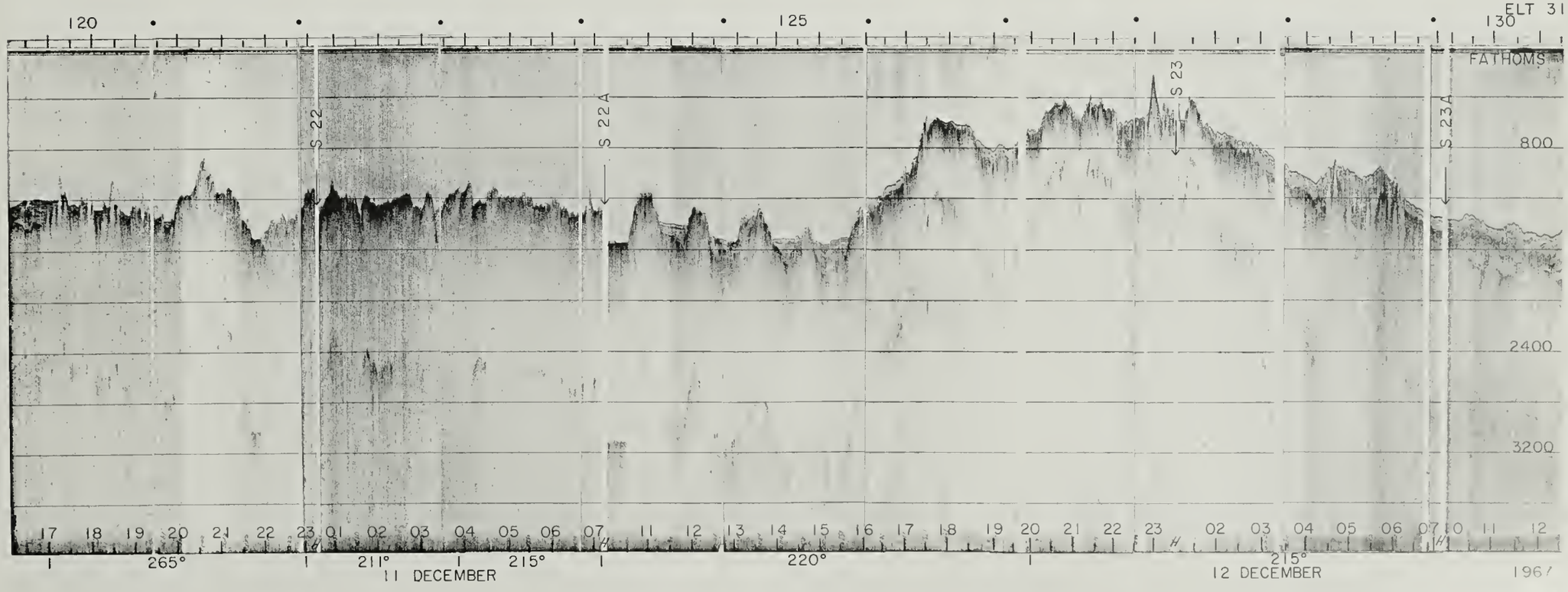
ELT 31
FATHOMS
S 8
S 9
S 9A
S 10-12
800
1600
2400
3200
1000
1800
3400
21 00 01 02 03 04 05 06 07 09 12 13 14 15 16 17 18 19 20 21 23 00 01 02 03 04 05 09 10 11 12 13 15 16 17
230° 220° 222° 226° 220° 225° 220° 218°
25 NOVEMBER
26 NOVEMBER
29 NOVEMBER

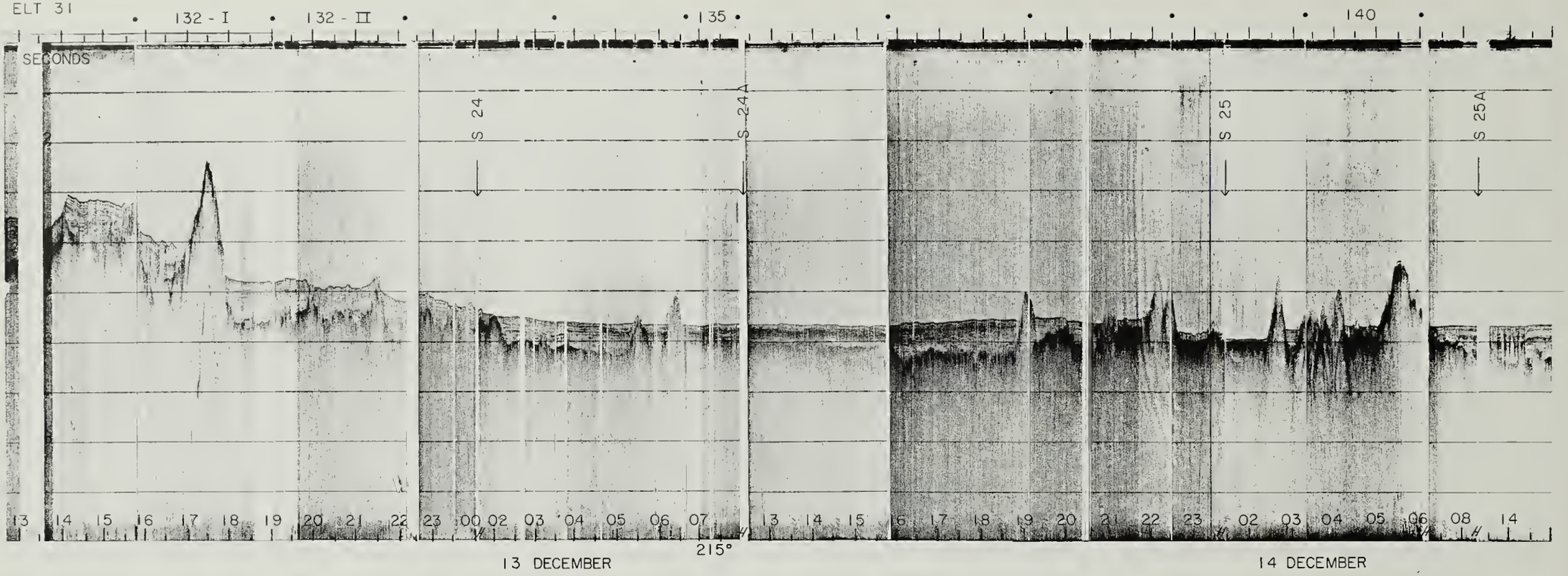

80
84 - I
84 - II
85
ELT 31
FATHOMS
S 15A
S 16
S 16A
800
1600
2400
04 05 06 07 11 12 13 14 15 16 17 18 19 20 21 22 23 01 02 03 04 05 06 11 12 13 14 15 16 17 18 19 20 21 22 23
226° 230° 225° 227° 134° 120° 051° 055° 090° 039° 035°
2 DECEMBER
3 DECEMBER
1967

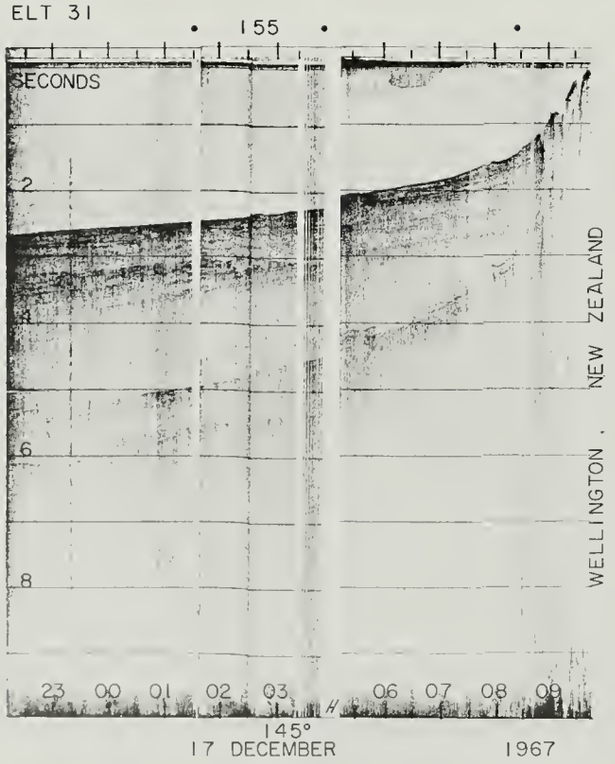

ELT 31
90
95
SECONDS
S 18
PAGO PAGO, E. SAMOA
045°
110°
226°
232°
226°
4 DECEMBER
6 DECEMBER

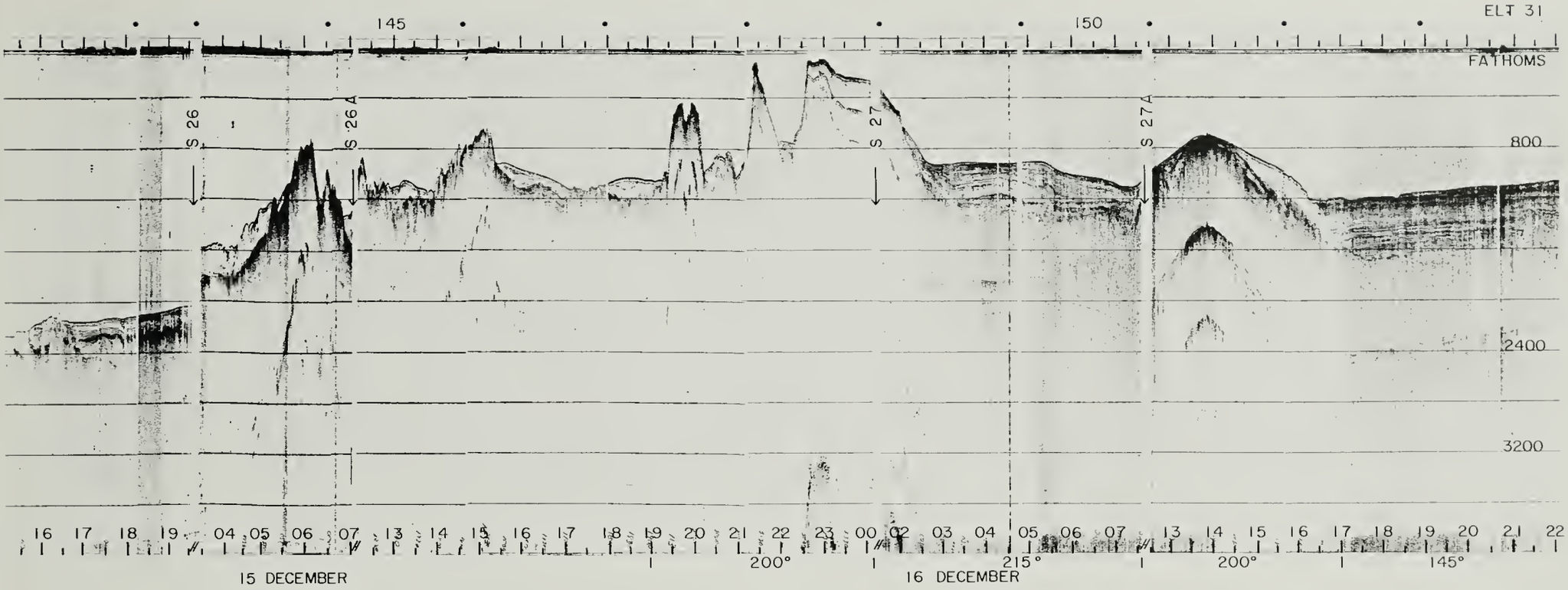

ELT 31
110
115
SECONDS
S 20
S 20 A
S 21
S 21A
265°
270°
267°
272°
267°
9 DECEMBER
10 DECEMBER

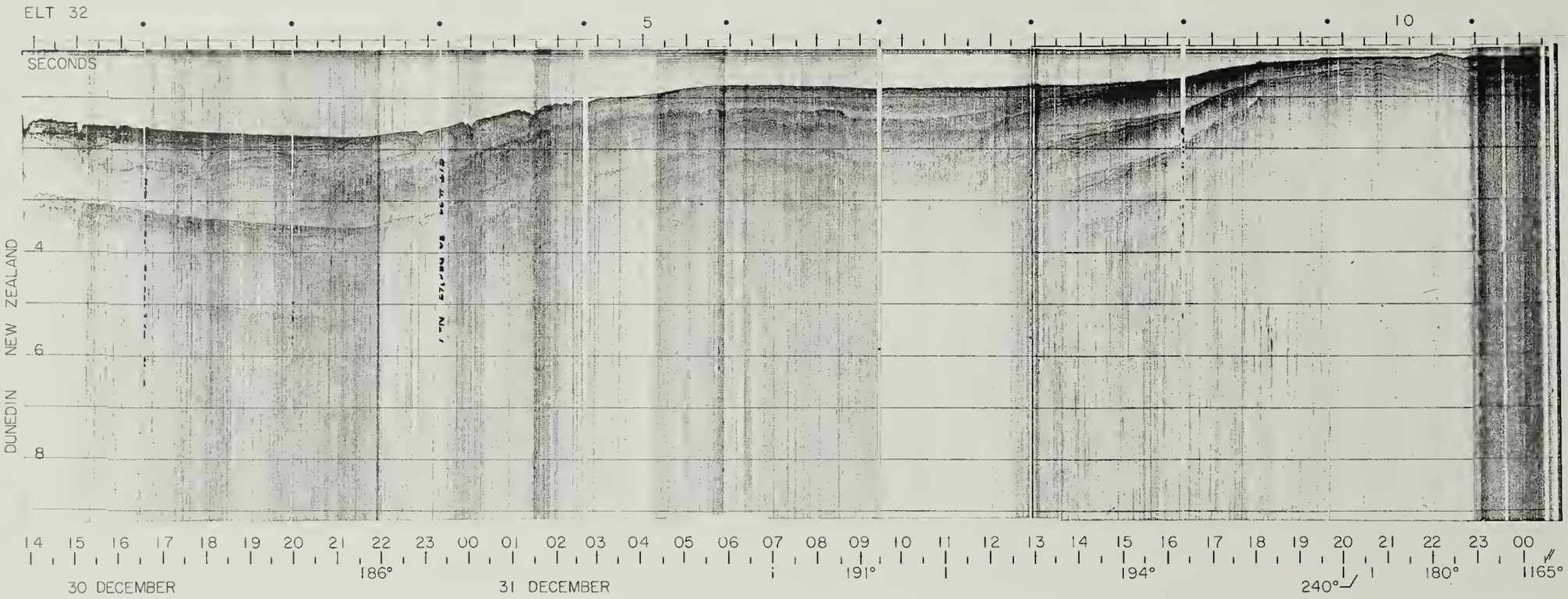

100
105
ELT 31
FATHOMS
800
1600
2400
S 18A
S 19
S 19A
440
07 08
02 03 04 05 06 12 13 14 15 16 17 18 19 20 21 22 00 01 02 03 04 05 06 11 12 13 14 15 16 17 18 19 20 21
082°
045°
086°
090°
082°
090°
085°
180°
7 DECEMBER
8 DECEMBER


120
125
130
ELT 31
FATHOMS
800
2400
3200
S 22
S 22A
S 23
S 23A
17 18 19 20 21 22 23 01 02 03 04 05 06 07 11 12 13 14 15 16 17 18 19 20 21 22 23 02 03 04 05 06 07 10 11 12
265°
211°
215°
220°
215°
11 DECEMBER
12 DECEMBER
1967


ELT 31
132 - I
132 - II
135
140
SECONDS
S 24
S 24A
S 25
S 25A
13 14 15 16 17 18 19 20 21 22 23 00 02 03 04 05 06 07
13 14 15 16 17 18 19 20 21 22 23 02 03 04 05 06 08 14
215°
13 DECEMBER
14 DECEMBER


ELT 31
155
SECONDS
2
4
6
8
23 00 01 02 03 06 07 08 09
145°
17 DECEMBER
1967
WELLINGTON . NEW ZEALAND


ELT 31
145
150
FATHOMS
800
2400
3200
S 26
S 26A
S 27
S 27A
16 17 18 19 04 05 06 07 13 14 15 16 17 18 19 20 21 22 23 00 02 03 04 05 06 07 13 14 15 16 17 18 19 20 21 22
200°
215°
200°
145°
15 DECEMBER
16 DECEMBER


ELT 32
5
10
SECONDS
4
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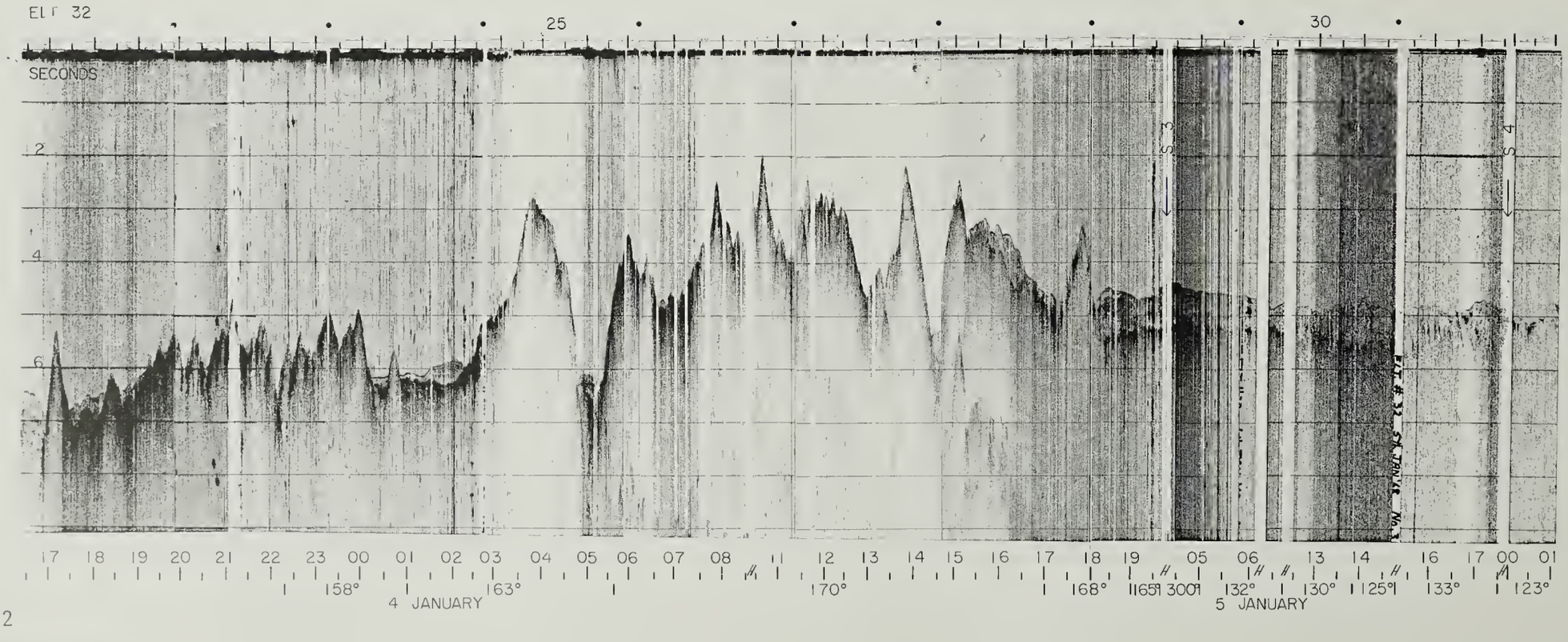
DUNEDIN NEW ZEALAND
14 15 16 17 18 19 20 21 22 23 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 00
186°
191°
194°
240°
180°
1165°
30 DECEMBER
31 DECEMBER


ELT 32
25
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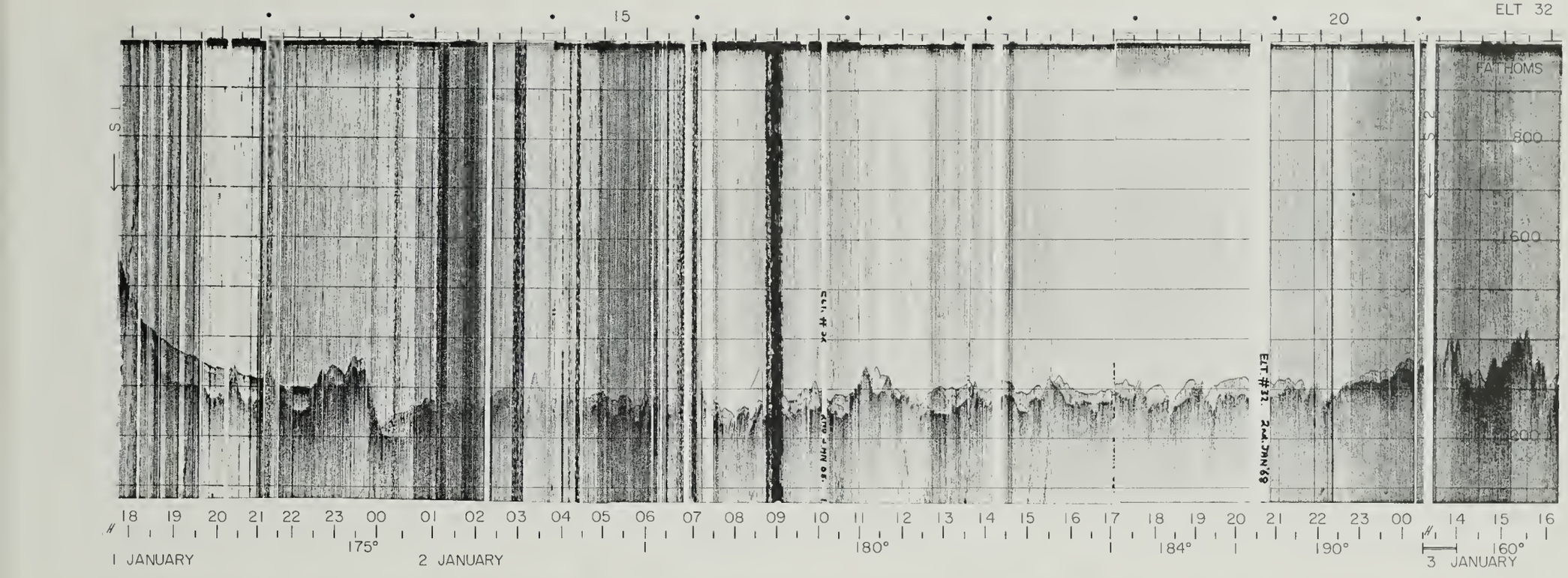
SECONDS
2
4
6
17 18 19 20 21 22 23 00 01 02 03 04 05 06 07 08 11 12 13 14 15 16 17 18 19 05 06 13 14 16 17 00 01
158°
163°
170°
168°
1165°
3000
132°
130°
125°
133°
123°
4 JANUARY
5 JANUARY


ELT 32
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20
FATHOMS
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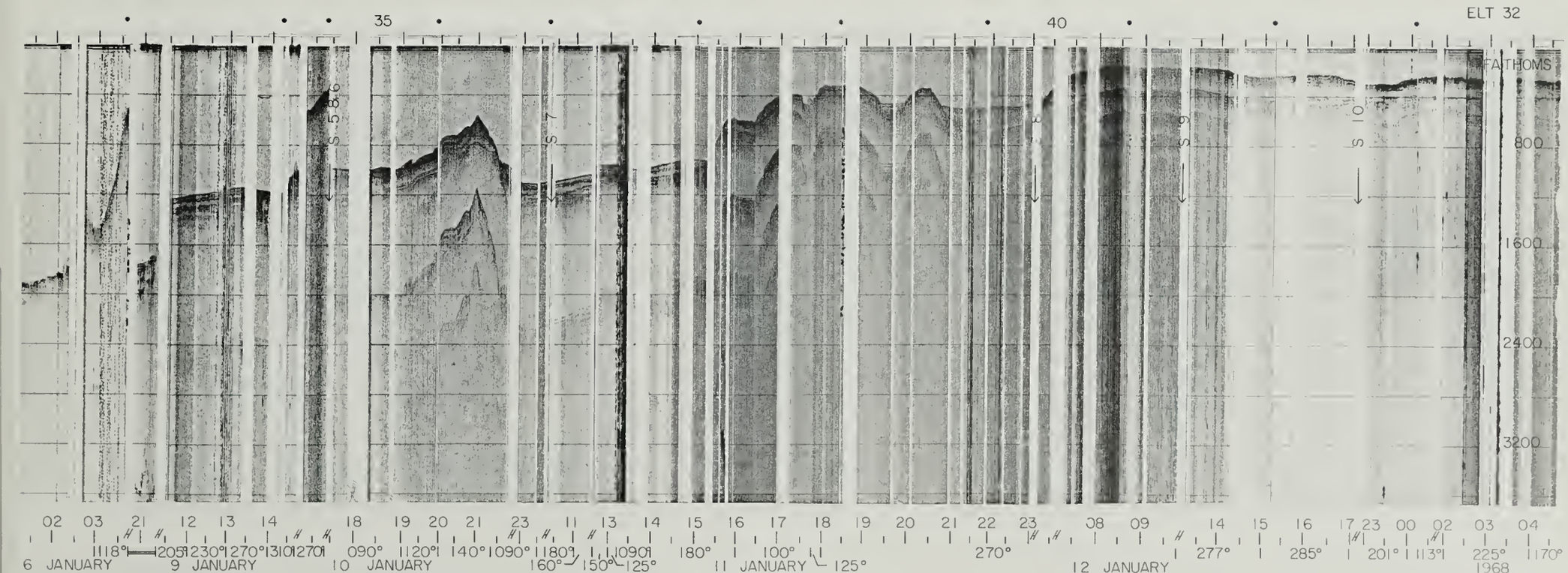
1600
2400
ELT #32. 2nd JAN 69
18 19 20 21 22 23 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 00 14 15 16
175°
180°
184°
190°
160°
1 JANUARY
2 JANUARY
3 JANUARY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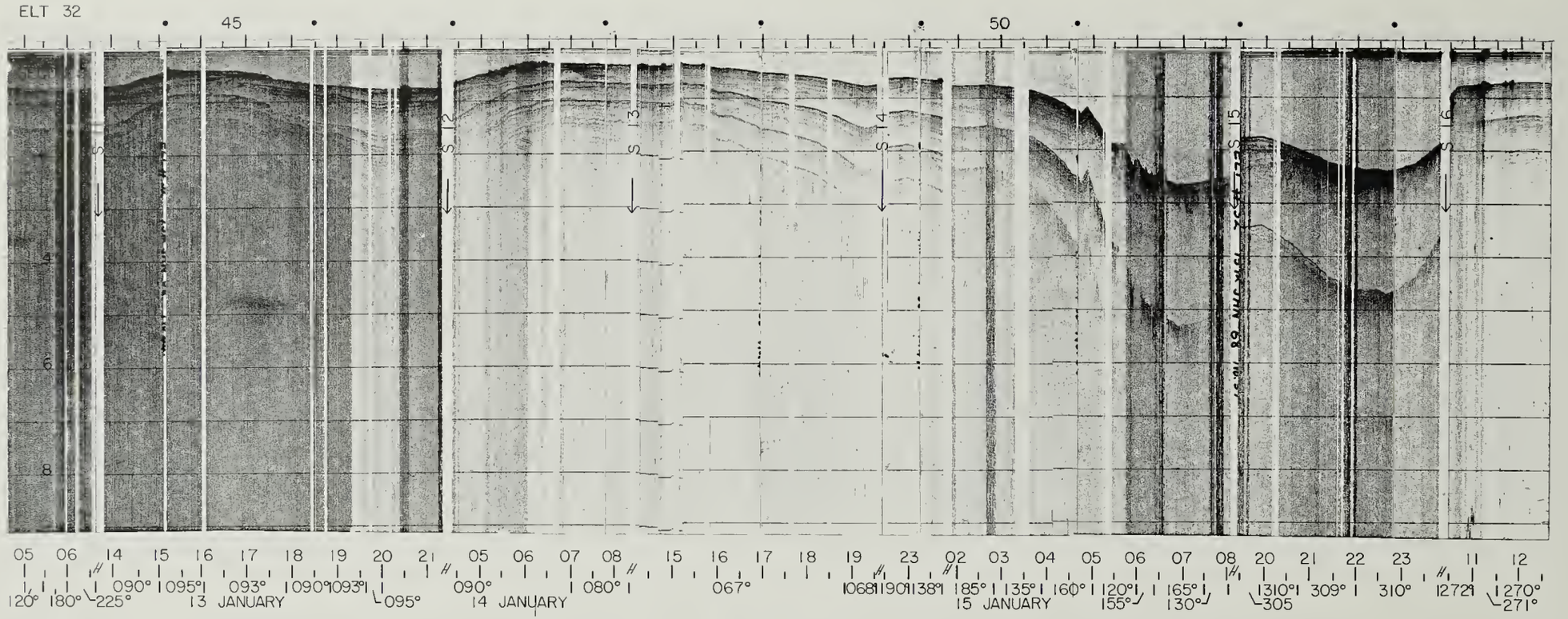
1600
2400
3200
02 03 21 12 13 14 18 19 20 21 23 11 13 14 15 16 17 18 19 20 21 22 23 08 09 14 15 16 17 23 00 02 03 04
118° 205° 230° 270° 310° 270° 090° 120° 140° 090° 180° 090° 090° 180° 100° 270° 277° 285° 201° 113° 225° 170°
6 JANUARY
9 JANUARY
10 JANUARY
11 JANUARY
12 JANUARY
1968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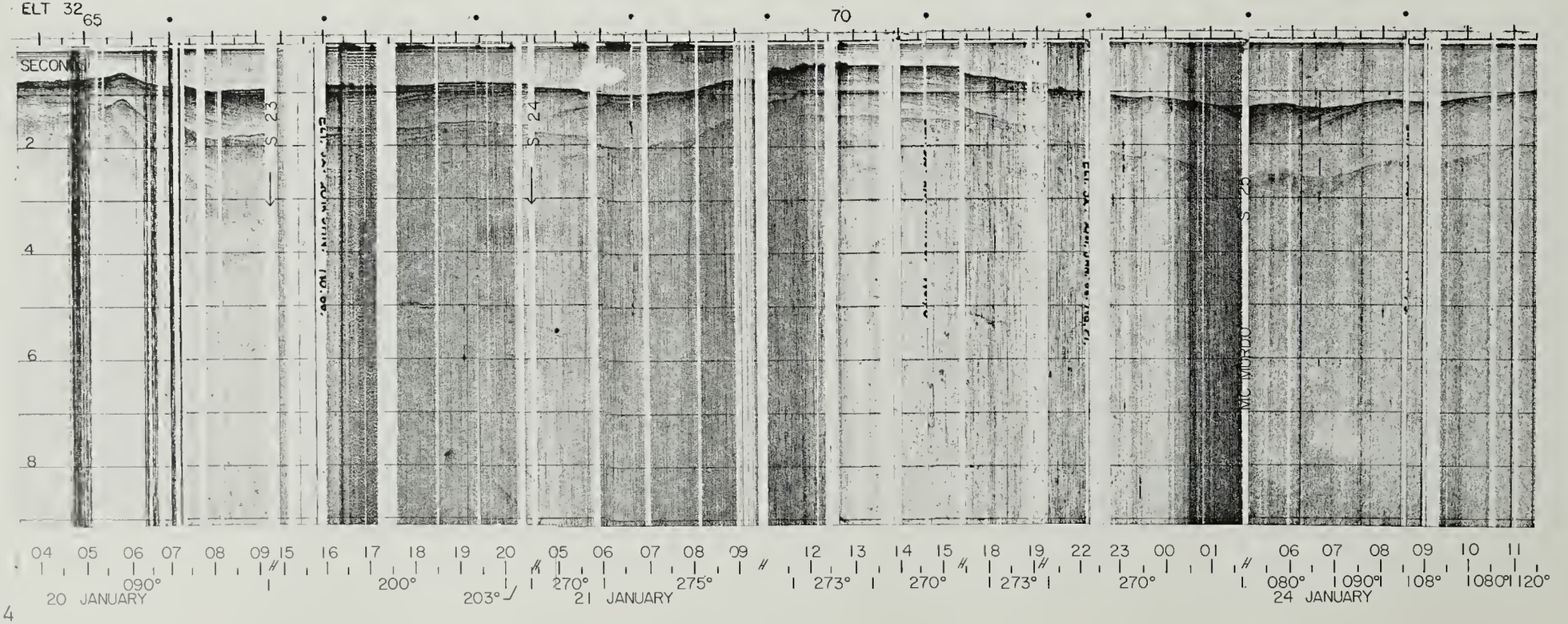
S 13
S 14
S 15
S 16
8.9 MILE MILE
05 06 14 15 16 17 18 19 20 21 05 06 07 08 15 16 17 18 19 23 02 03 04 05 06 07 08 20 21 22 23 11 12
120° 180° 225° 090° 095° 093° 090 093° 095° 090° 080° 067° 068 190 138 185° 135° 160° 120° 155° 165° 130° 1310° 305 309° 310° 272 270° 271°
13 JANUARY
14 JANUARY
15 JANUARY


ELT 32
65
70
SECONDS
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6
8
S 23
S 24
S 25
MC MURDO
04 05 06 07 08 09 15 16 17 18 19 20 05 06 07 08 09 12 13 14 15 18 19 22 23 00 01 06 07 08 09 10 11
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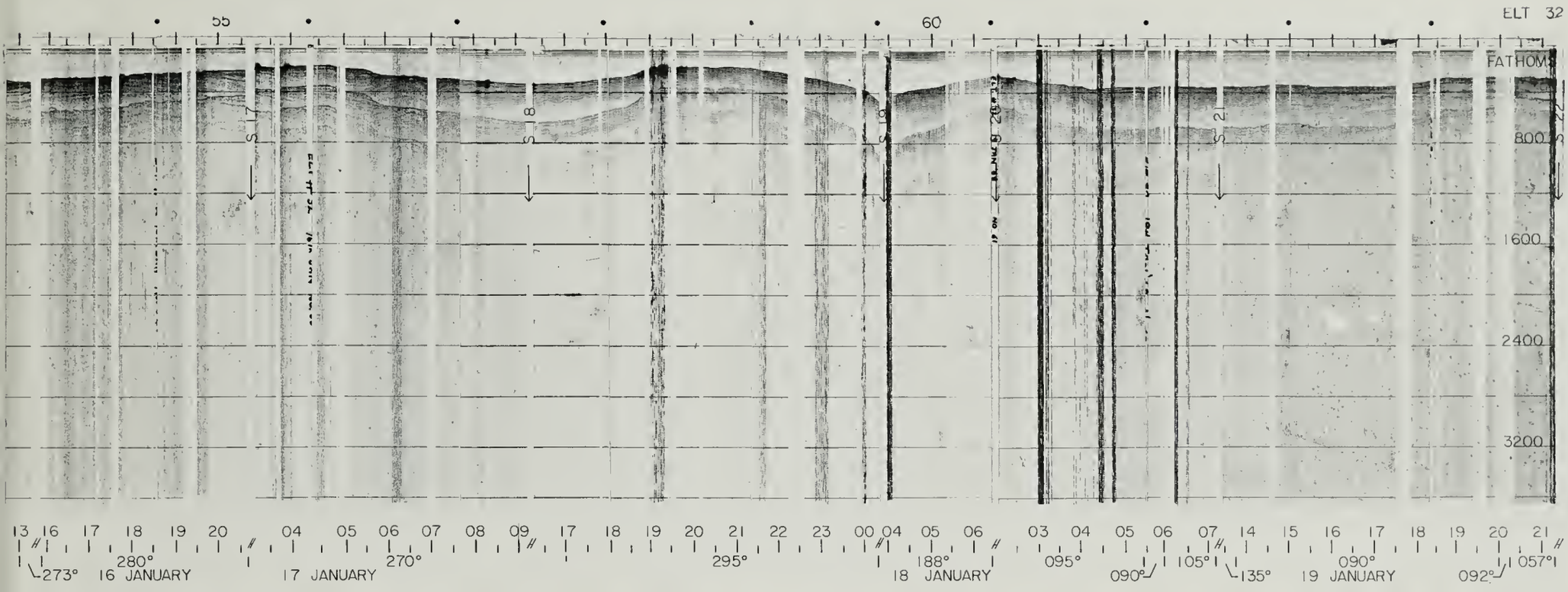
20 JANUARY
21 JANUARY
24 JANUARY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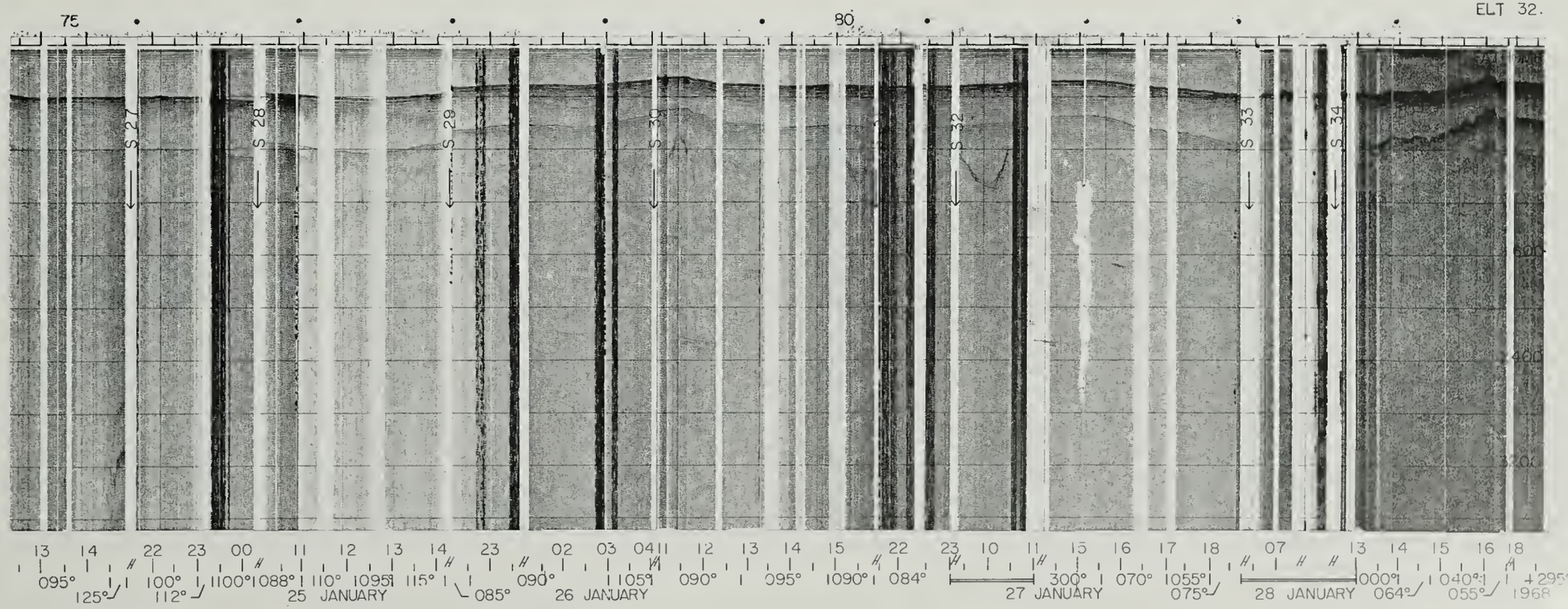
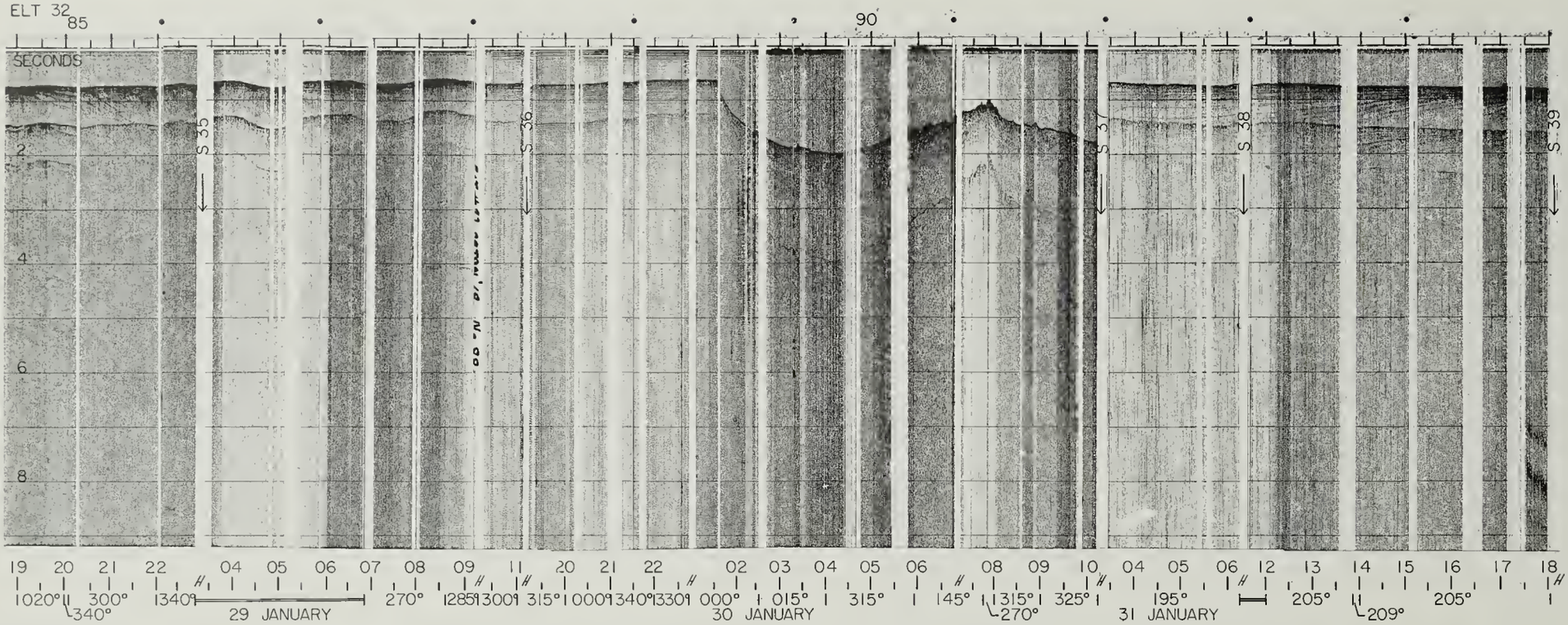
ELT 32
FATHOMS
800
1600
2400
3200
S 17
S 18
S 19
S 20
S 21
13 16 17 18 19 20 04 05 06 07 08 09 17 18 19 20 21 22 23 00 04 05 06 03 04 05 06 07 14 15 16 17 18 19 20 21
273° 16 JANUARY
280°
270°
17 JANUARY
295°
188°
18 JANUARY
095°
090°
105°
135°
19 JANUARY
090°
092°
057°


75
80
ELT 32.
S 27
S 28
S 29
S 30
S 32
S 33
S 34
600
1200
1800
13 14 22 23 00 11 12 13 14 23 02 03 04 11 12 13 14 15 22 23 10 11 15 16 17 18 07 13 14 15 16 18
095°
125°
100°
112°
1100°
1088°
110°
1095°
115°
25 JANUARY
085°
090°
26 JANUARY
1059°
090°
095°
1090°
084°
300°
070°
1055°
075°
27 JANUARY
000°
064°
28 JANUARY
040°
055°
+295°
1968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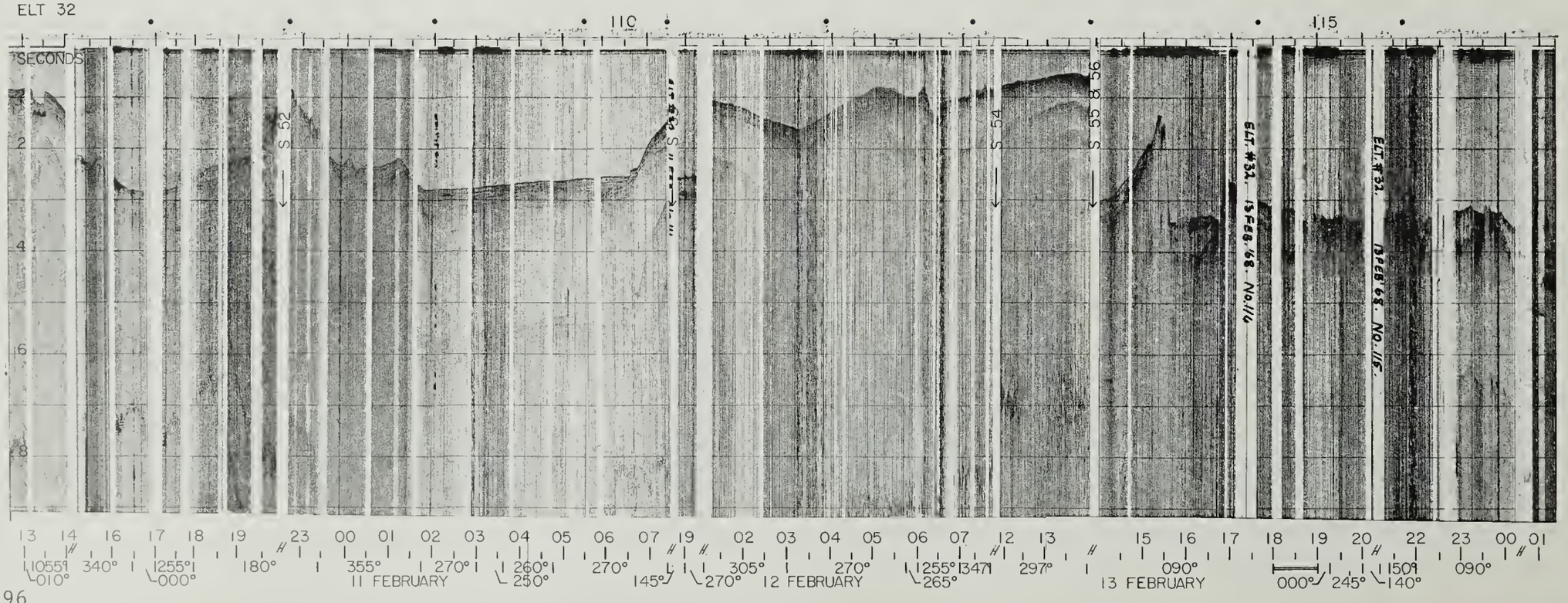
85
90
SECONDS
2
4
6
8
S 35
S 36
S 37
S 38
S 39
19 20 21 22 04 05 06 07 08 09 11 20 21 22 02 03 04 05 06 08 09 10 04 05 06 12 13 14 15 16 17 18
1020° 300° 1340° 270° 1285 1300 315° 1000 1340° 1330 000° 015° 315° 145° 1315° 325° 195° 205° 205°
340°
29 JANUARY
30 JANUARY
270°
31 JANUARY
209°


ELT 32
110
115
SECONDS
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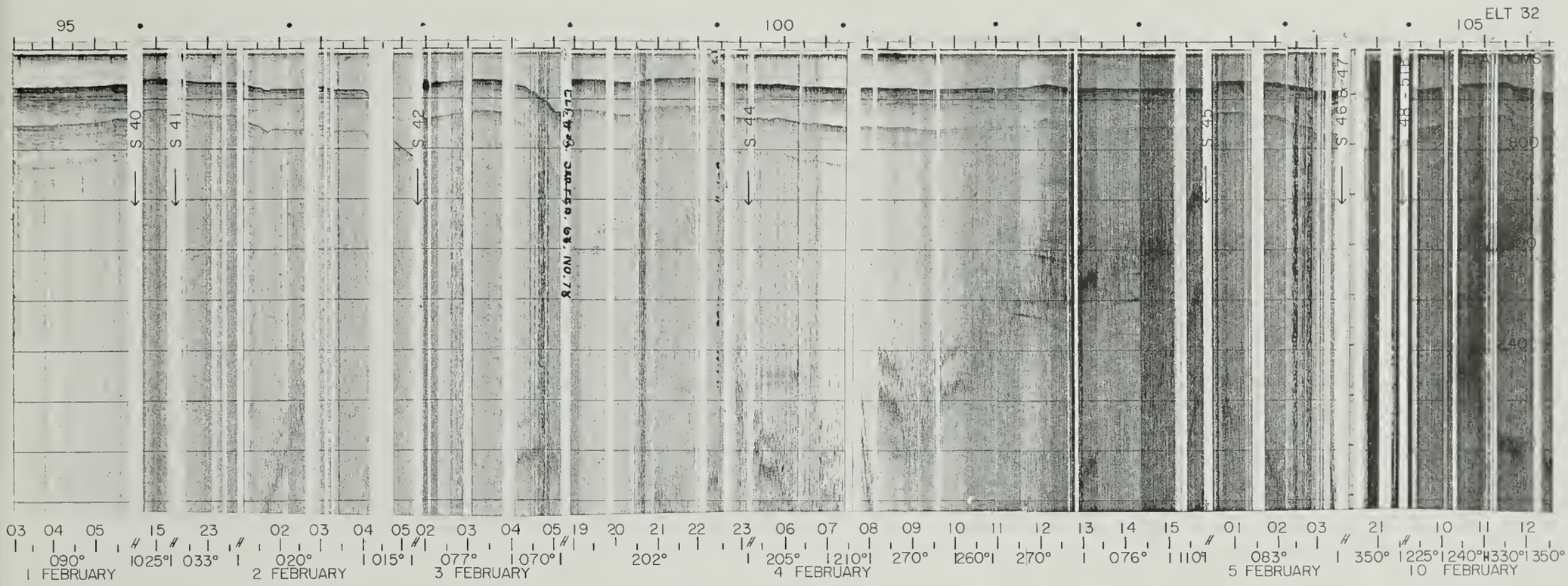
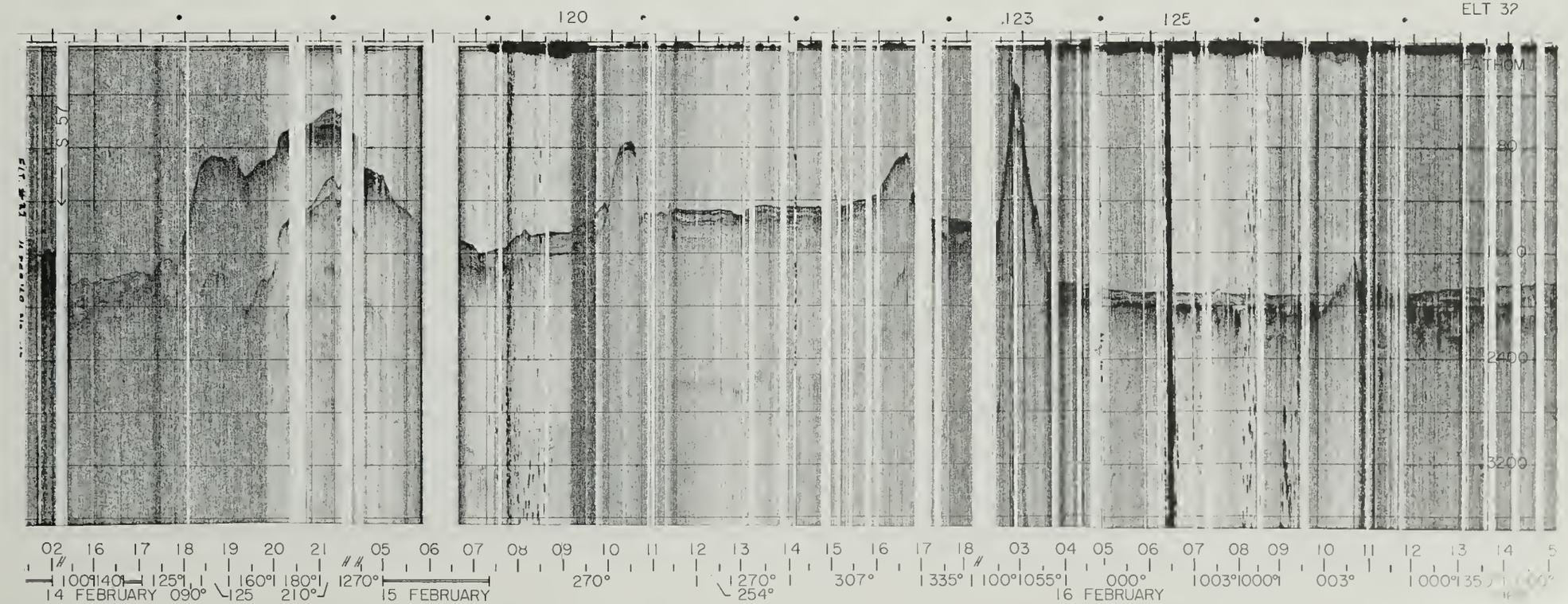
S 52
S 53
S 54
S 55
S 56
ELT #32, 13 FEB '68, No. 114
ELT #32, 13 FEB '68, NO. 115
13 14 16 17 18 19 23 00 01 02 03 04 05 06 07 19 02 03 04 05 06 07 12 13 15 16 17 18 19 20 22 23 00 01
10559 340° 1255° 180° 355° 270° 260° 270° 305° 270° 1255° 1347 297° 090° 1509 090°
010° 000° 250° 145° 270° 265° 000° 245° 140°
11 FEBRUARY
12 FEBRUARY
13 FEBRUARY


95
100
105
ELT 32
S 40
S 41
S 42
S 44
S 45
S 46
S 47
48 - 5 HR
FATHOMS
800
1600
2400
3200
03 04 05 15 23 02 03 04 05 02 03 04 05 19 20 21 22 23 06 07 08 09 10 11 12 13 14 15 01 02 03 21 10 11 12
090° 1025° 033° 020° 015° 077° 070° 202° 205° 210° 270° 260° 270° 076° 1109 083° 350° 225° 240° 330° 350°
1 FEBRUARY
2 FEBRUARY
3 FEBRUARY
4 FEBRUARY
5 FEBRUARY
10 FEBRUARY


120
123
125
ELT 32
S 57
FATHOMS
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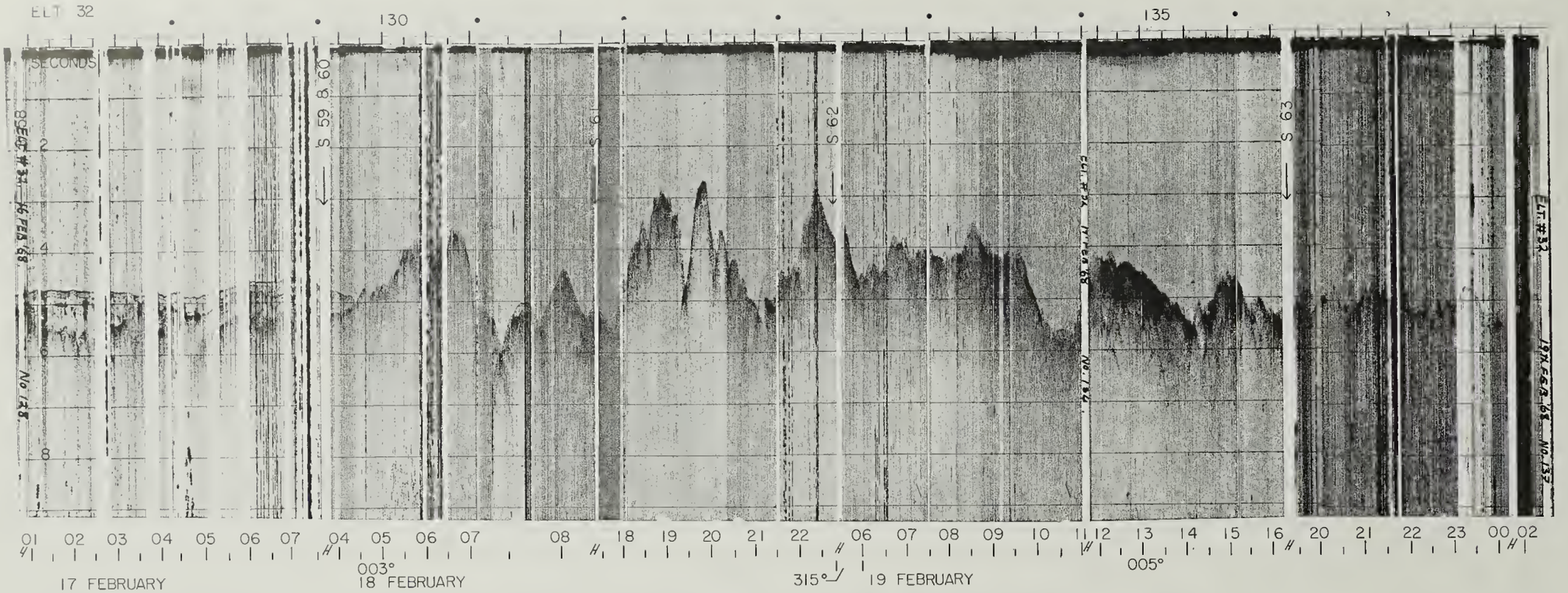
1600
2400
3200
02 16 17 18 19 20 21 05 06 07 08 09 10 11 12 13 14 15 16 17 18 03 04 05 06 07 08 09 10 11 12 13 14 5
1009 1401 1259 1160° 1180° 1270° 270° 1270° 307° 1335° 1100° 1055° 000° 1003° 1000° 003° 1000° 135°
14 FEBRUARY 090° 125 210°
15 FEBRUARY
254°
16 FEBRUARY


ELT 32
130
135
SECONDS
2
4
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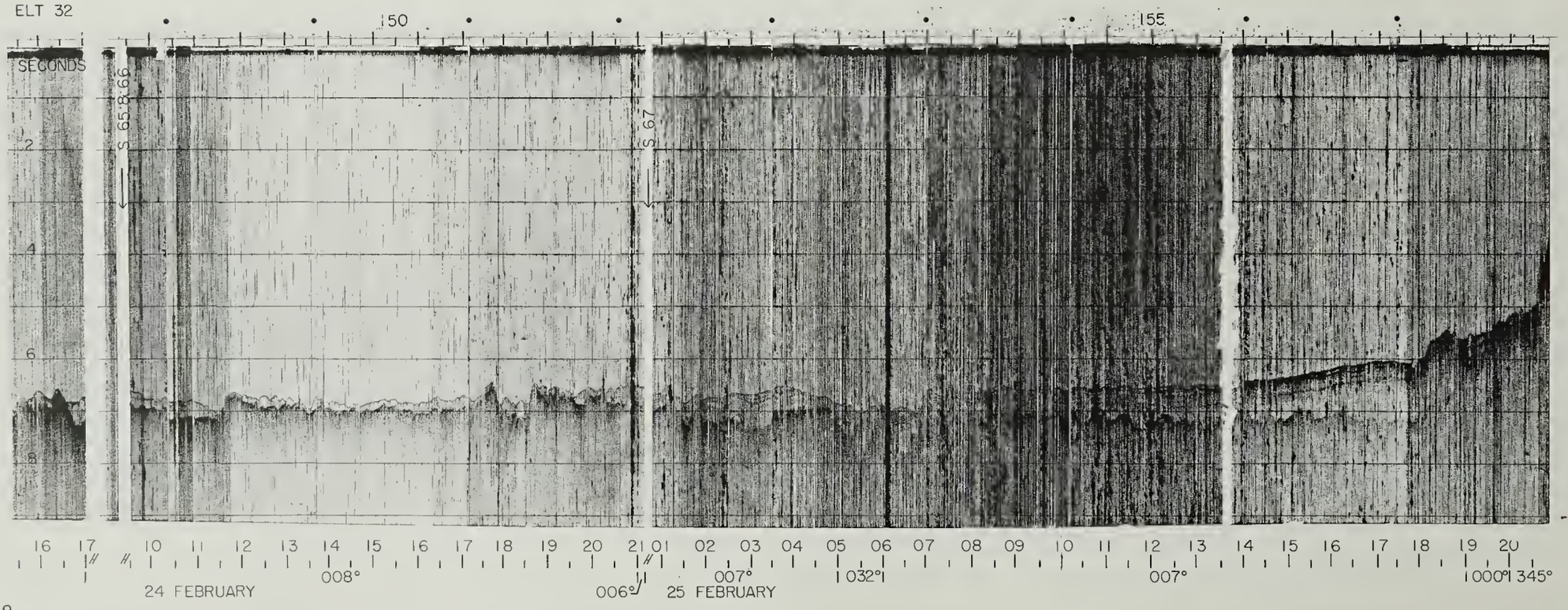
8
S 59
S 60
S 62
S 63
01 02 03 04 05 06 07 04 05 06 07 08 18 19 20 21 22 06 07 08 09 10 11 12 13 14 15 16 20 21 22 23 00 02
17 FEBRUARY
003°
18 FEBRUARY
315°
19 FEBRUARY
005°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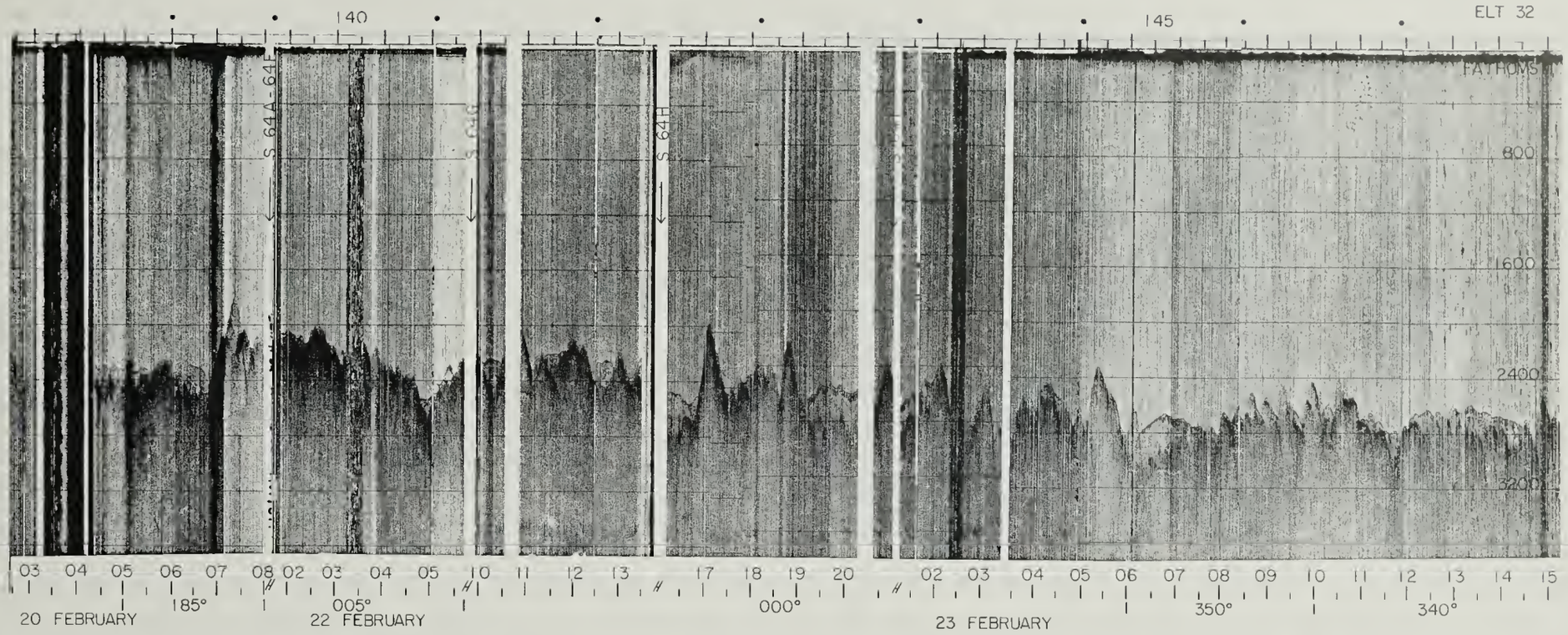
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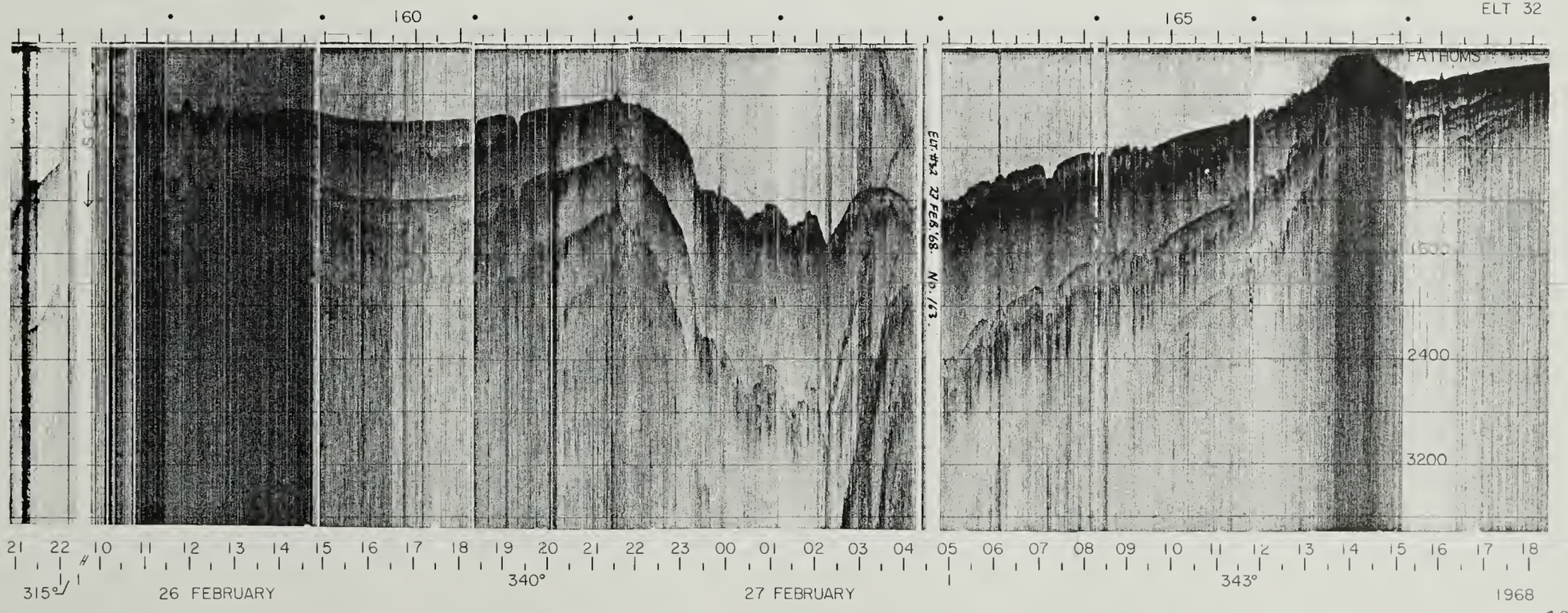
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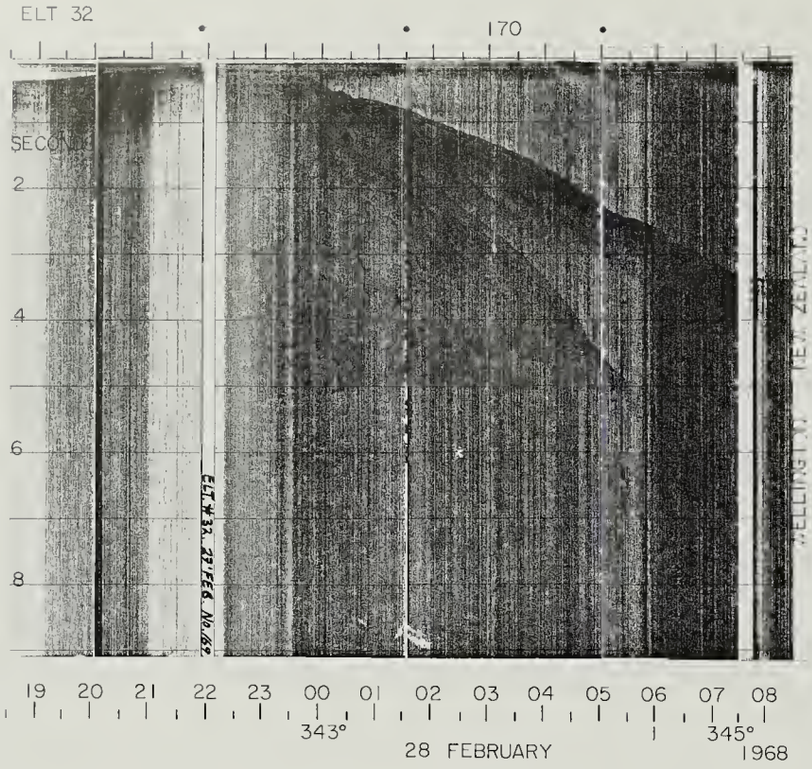
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GRAVITY MEASUREMENTS

ELTANIN CRUISES 28-32

by

Manik Talwani and Robert R. Meijer II

INSTRUMENTATION

The gravity equipment consisting of a Graf Askania Sea Gravimeter (Gss2-25) and an Anschutz gyrotable (using an electrically erected gyro) was installed in the gravity room on the USNS ELTANIN in March 1967 at the beginning of Cruise 28. The meter constant (UDC) was determined at 0.4826 mgal/Upper Dial Division by making measurements over the Lamont-Doherty calibration range which extends from Rouses Point, N. Y. to Thorofare Mt., Va., and has a range of over 800 mgals.

A system developed at Lamont-Doherty Observatory (Talwani 1968) for signal monitoring (Figure 1) and analog computation of the cross coupling (Figure 2) error was also installed. The Eotvos correction shown in Figure 1 is purely for monitoring purposes. The actual Eotvos correction is computed from the adjusted navigation.

Linearization of the gravimeter output was carefully assured by the manufacturer since the Lamont-Doherty designed amplifiers and filters, which were used, provide no compensation for any non-linearities. An adjustment is necessary in the Anschutz gyrotable to allow for the small d.c. off-level caused by course changes. This adjustment is made manually for the ELTANIN installation.

A grid survey was made over the Gilbert Seamount complex (Figure 3) to check the accuracy of the gravimeter by comparing observed values at track intersections. Figure 4 shows the

ship's track for this survey with a free-air gravity profile plotted along the track. A histogram of the discrepancies at track intersections is shown in Figure 5. At 38 of 54 intersections (70%) the discrepancies are 3 mgal or less. The importance of applying the cross coupling correction, especially as the sea gets rough, is demonstrated by plots of gravity along two nearly coincident track lines (Figure 6), with the ship headed in opposite direction along the two lines.

BASE STATION CALIBRATION

The Graf seagravimeter aboard the USNS ELTANIN during Cruises 28 through 32 measures only relative variations in the strength of the Earth's gravitational field. The gravimeter has a lower (or latitude) dial (LD), an upper dial (UD), and a strip chart recording which register the variations of gravity. It is convenient to convert the chart readings to upper dial units by a calibration factor known as the Dial Record Ratio; in which case, if the subscripts obs and base refer, respectively, to an unknown station and a base station; and LDC and UDC are constants which convert the dial units to milligals, then:

$$g_{obs} = g_{base} + (LD_{obs} - LD_{base}) \times LDC + (UD_{obs} - UD_{base}) \times UDC$$

Since the lower (or latitude) dial is changed only occasionally (the upper dial for Gss2-25 has a gravity range of 4000 mgal); it is convenient to define g_{zero} (for a particular value of the lower dial), as follows:

$$g_{zero} = g_{base} + (LD_{base} - LD_{base}) \times LDC - UD_{base} \times UDC$$

in which case,

$$g_{obs} = UD_{obs} \times UDC + g_{zero}$$

At every harbor a value for g_{base} is determined (Table 1) and this value is used to compute a new g_{zero}. It is clear that the value of g_{zero} provides a simple way to calculate the observed gravity and that comparison of g_{zero} values at different ports gives the meter drift. Of course, if the lower dial is changed g_{zero} shifts accordingly. In Figure 7 where the relative values of g_{zero} are given this shift due to change in the lower dial has been allowed for. We see that the average drift of Gss2-25 is about -4 mgal/month. (Note that tares of the gravimeter will appear as jumps in g_{zero}.)

In calculating gravity values we assume that g_{zero} varies linearly between ports (i.e., the meter drifts at a constant rate). Table 2 summarizes the values of g_{zero} and gives also the upper and lower dial values at each determination.

The Dial Record Ratio also varies slightly with time as shown in Figure 7. In computing the gravity values we assumed that the Dial Record Ratio also varies linearly between ports. Manual controls can be used to vary the Dial Record Ratio; however, no such adjustment was necessary during Cruise 28-32.

ELTANIN 28 Melbourne - Valparaiso

Irregular anomalies with peak to peak amplitudes of about +30 mgal associated with Bass Straits are not unusual for the shelf area. A large high of about +80 mgal is associated with the eastern edge of the Bass Strait and the high apparently continues southwards along the shelf edge off Tasmania as indicated by the gravity high at 420 miles. The Bass Strait east edge high is important; a similar high has been shown from more recent data to exist over the western edge and neither high can be attributed to "edge effects." These highs reflect subsurface density inhomogeneities possibly attributable to basement ridges defining the margins of Bass Strait.

Free-air anomalies average about -10 mgal over the Tasman Basin. A grid survey was conducted in the area of rough topography of Gilbert Seamount complex at the eastern edge of Tasman Basin. A primary aim of this survey was to evaluate the accuracy of the gravimeter by comparing observed values at track intersections. The accuracy evaluation has been discussed earlier.

At the latitude of the ELTANIN 28 crossing Lord Howe Rise is not clearly apparent as a separate feature but merges into the slope of New Zealand. The gravity high at 2850 miles on the slope is possibly related to a basement high and cannot be attributed to the edge effect.

The large negative anomalies in Cook Strait are clearly an extension of the spectacular northeast-southwest trending Rangitikei-Waiapu negative anomaly present on the North Island of New Zealand (Robertson and Reilly, 1958). This anomaly reaches a maximum of about -160 mgal at the coastline of North Island but only about -40 mgal of this is attributable to the gravitational effect of the Pliocene sediments the thickness of which is known from borehole data. Robertson

and Reilly attribute the remainder of the anomaly to deep seated sources.

Off the east coast of New Zealand there is a gravity low of about -100 mgal at about 3400 miles which is probably attributable to the topographic deep associated with the southern extension of the Hikurangi trench.

Chatham Rise (3500-4250 miles) is characterized by a prominent positive gravity anomaly which progressively diminishes from about +40 mgal at the western edge of the Chatham Rise to zero at its eastern edge. Non-seismic oceanic ridges and rises are frequently characterized by positive anomalies and Chatham Rise is typical in this respect. At the same time the rise and the gravity high may also be associated with the topographic and gravity highs associated with the seaward side of deep sea trenches (in this case the Kermadec and Hikurangi trenches).

The Louisville Ridge, which Hayes and Ewing (1970) suggest is a possible extension of the Eltanin Fracture Zone is crossed at 4560 n. miles. The gravity expression of the topographic high is apparent. It is pointed out that although in this case the ridge associated with the fracture zone is clearly defined topographically, the gravity method is very useful for identifying fracture zones where the topography associated with a fracture zone is completely buried under and levelled by sediments.

The East Pacific Rise crest is crossed at about 6900 miles and the Chile Ridge crest at about 8200 miles. With the exception of two areas of rough topography, one between 5400 and 5800 miles (which is associated with a fracture zone making a small angle with the ELTANIN 28 track (Herron, 1972) and the other between 7300 and 7600 miles, the entire distance between the Louisville Ridge

and up to the Chile Ridge has anomalies of very low amplitudes (peak to peak amplitudes seldom exceeding 20 mgal) and average free-air anomalies are close to zero. This clearly demonstrates that the East Pacific Rise is in isostatic equilibrium. The small departures from isostatic equilibrium are of great interest. Recent results based on surface ship gravity data as well as from satellite observations (Kaula, 1970; Talwani, 1971) suggest that oceanic ridges are associated with near zero or small (maximum +40 mgal) positive gravity anomalies. The fast spreading East Pacific Rise is, along this profile, an example of a mid-ocean ridge with near zero gravity anomalies. The slower spreading Chile Ridge, on the other hand, has anomalies of larger amplitude associated with its rough topography, and, importantly, the average anomaly is about +10 mgal.

The gravity anomalies continue to be positive east of the Chile Ridge up to the Peru Chile Trench which appears as a buried trench at this latitude (Hayes, 1966). Of special interest is the positive anomaly of about +20 mgal at 8460-8500 miles seaward of the Peru Chile Trench; the gravity high is coincident with an uparching of topography.

Free-air negatives are present over the buried trench; the anomalies are, however, small. The minimum is about -68 mgal near 43°S and about -48 mgal near 41°S. Further north the minima are larger where the trench is apparent topographically. Minimum values equal -140 mgal at 35°S and -190 mgal between 33°S and 34°S.

ELTANIN 29 Valparaiso - Brisbane

Three crossings of the Peru-Chile Trench were made - at approximately 32°S, 30°S, and 28°S. The gravity minima are -172 mgal, -190 mgal and -182 mgal. The southernmost crossing shows a double gravity minimum, the landward minimum being associated with a terrace on the landward wall of the Peru Chile Trench. The presence of gravity minima over the landward wall of deep sea trenches is a common phenomenon and has generally been ascribed to a large thickness of sediments in the landward wall.

As on the ELTANIN 28 profile we see a positive free-air high of about +20 mgal seawards of the trench (near 500 miles).

The axis of the East Pacific Rise is at 113°W (2700 miles), and trends slightly east of north. Herron (in press) has postulated that a shift in the ridge axis occurred at about anomaly 5 time (9 m.y. ago). The extinct ridge axis is at 95°W (1740 miles) and trends northwest. A topographic high associated with the extinct ridge axis exists, although it is offset to the east of the ridge axis (1250-1740 miles). An average gravity high of about +10 mgal exists over this topographic high. Eastwards towards the trench the gravity values decrease to an average level of about -10 mgal (700-1100 miles). Gravity values over the East Pacific Rise are close to zero, though they decrease west of the rise axis to a level of about -10 mgal on the western flank.

Large gravity anomalies exist over the rough topography characterized by seamount chains west of the East Pacific Rise. The Austral Seamount chain is the most prominent one (near 143°W). Other seamount chains are intersected by the ELTANIN profile at 151°W and 161°W. In all cases the free-air gravity high exists over the seamount with negatives (of lower amplitudes and wider extent)

on either side.

Just east of the Kermadec Trench a gravity high of +200 mgal is recorded over Osborne Seamount. The Kermadec Trench is crossed three times (between 6100 and 6800 miles) with gravity minima ranging from about -220 to -240 mgal. The gravity minima are only very slightly displaced landwards of the topographic minima. The Kermadec Ridge (6880 miles) has positive anomalies up to 150 mgal; the values decrease to +70 mgals over the Fiji Ridge (7080 miles).

The gravity values over the southern margin of the South Fiji Basin (7700 - 7900 miles) are all positive with highs ranging up to +150 mgal over topographic peaks.

The gravity high of +40 mgal is surprisingly low over the crest of Norfolk Ridge at 7940 miles. For an uncompensated topographic change of more than 1200 fathoms a gravity high of more than +100 mgal. would be expected. Lord Howe Rise, which extends from 8130 to 8500 miles, has similarly small anomalies over it, ranging from -20 to +20 mgal.

A NW-SE trending "seamount", (the Britannia Guyots) is crossed three times at 8600, 8820, and 8850 miles with gravity highs of 235, 260 and 205 mgal respectively. The Australian Continental Shelf is reached at 8720 miles; ELTANIN headed east again and then turned northwest to reach the shelf at 8800 miles. At the foot of the short steep slope there is a low of -50 to -70 mgal while there is a shelf edge high of +85 mgal at 27°S.

ELTANIN 30 Brisbane - San Francisco

There is a free-air gravity high of about +80 mgal at the edge of the continental shelf NE of Brisbane and a gravity low of -80 mgal at the foot of the slope. This low also appears to be associated with the flank of a seamount. The seamount with a large free-air gravity high of nearly 100 mgal is at 135 miles.

The high topography between 240 and 580 miles is associated with the northwestern extension of the Lord Howe Rise. Free-air gravity is positive here and is associated with the topography; however the important relative gravity low near 340 miles is not entirely due to topography.

Northeast of 580 miles the depths gradually decrease to 2500 fms at 920 miles in the eastern basin of the Coral Sea. Free-air gravity values are close to zero with the exception of a gravity high of almost +100 mgal over a seamount at 680 miles.

Near 1000 miles the high topography is associated with the ridge that divides the eastern and western basins of the Coral Sea. Free-air gravity values are positive, ranging from about +10 to +40 mgal. The track runs northeast to 1220 miles just past the deepest part (along this track) of the New Hebrides Trench; it turns southwest again to 1250 miles and then north-northeast recrossing the trench at 1270 miles. There is a free-air maximum of about +30 mgal associated with the high topography southwest of the trench (1140-1180 miles). Similarly, between the New Hebrides trench and the Vityaz trench at 1410 miles, high topography is associated with positive gravity anomalies of +50 mgal in magnitude. The Vityaz trench is poorly developed along this crossing and has a free-air minimum of -60 mgal almost directly below the deepest part of the trench. A gravity high of +110 mgal exists over the parallel ridge northeast of the trench.

The free-air gravity anomalies over the eastward extension of the Solomon Plateau (1600-2100 miles) are almost entirely negative with an average value of about -15 mgal. The negative values of -30 mgal at 2000 miles which decrease to about 0 mgal at the eastern edge of the plateau are especially remarkable; because as the free-air gravity increases by about 30 mgal, the depth increases by about 500 fathoms. The most straightforward interpretation of this unusual inverse relationship between topography and gravity can be made by invoking a thick wedge of low density sediments west of about 174°E.

On a regional basis the gravity anomalies are generally negative from the Gilbert Island area at 2400 miles to the Line Islands area at 3800 miles. Individually, the seamounts in this area of generally rough topography are characterized by relative positive anomalies and accompanying flanking negative anomalies. The Hawaiian Arch is crossed near 4400 miles. The positive over the arch and the flanking negatives are well known and are well developed along this profile. Of exceptional interest are the broad positive areas on the outer sides of the negatives - from 4140 to 4320 miles and from 4520 to 4720 miles. The positive anomaly over the arch and the flanking positives and negatives apparently form a single system associated with the isostatic compensation of the Hawaiian Arch.

From the Hawaiian Arch to the continental shelf off California there is a region of negative gravity anomalies, with free-air values generally ranging from 0 to -20 mgal although even lower values exist over the slope off California. This negative gravity area is large enough to have been defined also by gravity data obtained from satellite observations. The only positive

anomalies present are over seamounts and other topographic highs. The Murray Fracture Zone is crossed at 5400 to 5600 miles and the gravity highs and lows associated with topographic highs and lows are seen clearly.

The correspondence of gravity with depth variations is generally prominent at short wavelengths (∿100 km) because longer wavelength topographic features tend to be compensated which reduces this correspondence. However, from 5700 miles to 6400 miles one can detect broad topographic highs centered at about 5840, 5940, 6100, and 6260 miles with intermediate lows. By and large there is a correspondence of free-air gravity with these long wavelength topographic features. In fact, the free-air gravity relief appears to be exceptionally large. For example, the depth difference between 5880 and 5940 miles is roughly 100 fms which would, using the flat plate approximation and a density contrast of 1.5 gm/cm^3 at the bottom of the water layer give a gravity difference of 11 mgal assuming no isostatic compensation. The difference would be reduced with isostatic compensation; however, we find that actual gravity difference is almost 20 mgal. While it is difficult to make definitive statement without more data at right angles to the length of the profile, there is a suggestion that the topographic highs are associated with buried, high density structure.

The continental shelf edge off San Francisco has a well defined narrow (width about 10-15 miles) positive anomaly associated with it. A negative anomaly exists over the upper part of the continental slope.

ELTANIN 31 San Francisco - Dunedin

The gravity high at the edge of the shelf off San Francisco is encountered at 30 miles. Note that the ELTANIN 31 profile is at a more oblique angle to the strike of the shelf and the slope than the ELTANIN 30 profile; the narrow gravity minimum observed on the continental slope on ELTANIN 30 (at depths 600-2000 fathoms) appears to correspond to the apparently wider minimum on the ELTANIN 31 profile at depths 1000-2200 fathoms. The ELTANIN 31 profile crosses the Murray Fracture Zone at about 500 miles, the Molakai Fracture Zone near 1220 miles and the Clarion Fracture Zone near 2000 miles. The gravity values reflect the presence of these and other topographic features. The regional values of free-air gravity are negative to about 2700 miles clearly demonstrating the presence of the regional gravity minimum in the area between Hawaii and continental United States.

Large gravity anomalies are associated with the Line Islands chain near 3100 miles, and the extension of the Phoenix Island Chain (3400-3800 miles) and with the rough topography extending to about 4200 miles. However, the regional values are again clearly negative. Over the basin northeast of the Samoa Platform negative gravity values go down to almost -50 mgal. The values appear to be positive over the Samoa Platform but the gravimeter was inoperative at the time the positive maximum would have been recorded.

Five crossings of the Tonga Trench were made - at 4620, 4890, 5180, 5350, and 6050 miles. The free-air gravity anomalies and uncorrected depths in fathoms for the five

crossings are respectively: -100 mgal-3191 fms, -245 mgal-4016 fms, -220 mgal-4038 fms, -230 mgal-4744 fms, and -240 mgal-4705 fms. Note that the first crossing, which is unusually shallow, is near the trench terminus. South of these crossings, other data indicate that the free-air anomalies become even more negative and lie within a range of -250 to -300 mgal. The somewhat less negative values of the ELTANIN 31 crossings are associated with the northern terminus of the trench. We note, however, that the crossing at 4890 miles with -245 mgal represents an anomalously large negative value. The gravity minima lie very close to the deepest points for all the crossings. The gravity values east of the trench are essentially negative except over prominent topographic highs.

The Tonga Ridge shows a large gravity high with a maximum of +100 mgal at 6120 miles. The gravity values remain positive to the southwest and have another maximum of about +40 mgal over the Fiji Ridge at 6520 miles. The contrast between the gravity values over the Tonga and Fiji ridges has been noted earlier (Talwani et al. 1961).

The gravity values are close to zero over the South Fiji Basin although they begin to have positive values as the southern margin is approached. The gravimeter was inoperative from 7100 miles to the end of the cruise.

ELTANIN 32 Dunedin - Wellington

Free-air anomalies over the Campbell Plateau (200-560 miles) vary from -10 mgal to +15 mgal, with the average value being zero or slightly negative. There is a prominent +40 mgal high between 400 and 480 miles which is associated with Campbell Island. During a second crossing of the plateau, seven hundred miles to the northeast, free-air anomalies of zero to +20 mgal were recorded. A sharp high at the seaward edge of the plateau (9035 miles) is related to nearby Antipodes Island. The maximum value of this high was not recorded as the gravity system was temporarily inoperative.

Between Campbell Plateau and the Pacific-Antarctic Ridge, the southwest Pacific Basin exhibits a relatively featureless gravity profile of low amplitude, short wave-length anomalies. Peak to peak values are 10-15 mgal and the regional free-air anomaly averages -35 mgal. The crest of the Pacific-Antarctic Ridge is crossed at 1160 miles. Extreme local topographic relief gives rise to large free-air anomalies ranging from -90 mgal to +40 mgal.

South of the ridge, in the Balleny Basin, we again see a featureless anomaly profile (similar to the profile north of the ridge) with average free-air values of about -30 mgal.

The Ross Sea appears as a broad free-air negative, with a regional average of about -10 mgal. Of great interest, is a northeast-southwest trending gravity high that can be traced along the western edge of Pennell Bank from 78°S to 73°S and possibly as far north as 71°S. The anomaly is largest to the north and generally decreases southward along the

anomaly axis. Crossings at 73°S, 75°S, 76°S, 77°S, and 78°S have free-air values of 50, 35, 32, 45, and 30 mgal, respectively. The crossing at 74°S shows no free-air high but, a gravity system failure during the crossing suggests that the data may not be accurate. Topographic relief at the edge of Pennell Bank is quite low (∿200 fms) which indicates that the gravity high is associated with some deep structure.

Chatham Rise (9250-9440 miles) is marked by a -10 mgal free-air anomaly at its southern edge, Bounty Basin, which increases to +75 mgal at the crest of the rise. Just north of the crest (9500 miles) the deep topography of the southern extension of the Hikurangi Trench is traversed, and a negative anomaly of approximately -120 mgal is recorded.

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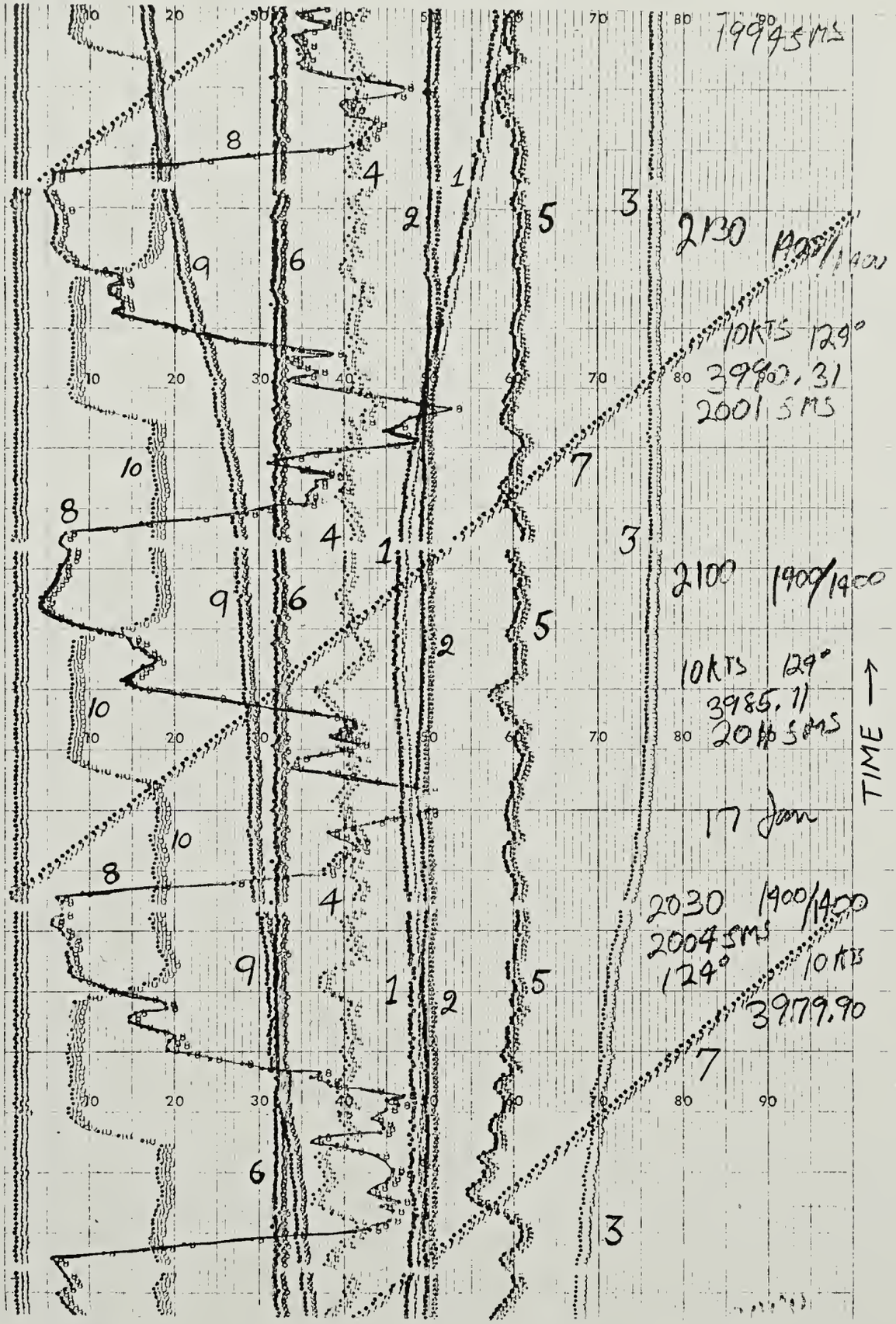
CITY	HARBOR STATION LOCATION	DATE	CRUISE #	g_{base} (Gals) AT HARBOR STATION	FIGURE #	SOURCE OF HARBOR VALUE
Melbourne Australia	North Wharf #6 37° 49' 30" S 144° 56' 48" E (H.O. 3532)	8 March 1967	28 Start	979.9894	8	Harbor Station connected to B.M.R. National Base**, GW-83 (979.9790, Dooley, 1965) by the Australia Dept. of National Development Bureau of Mineral Resources
Valparaiso Chile	Mooring Jetty Berth #1 33° 01' 59" S 71° 38' 25" W (H.O. 1117)	29 March 1967	28 End	979.6340	9	Harbor Station connected to the Physics Building (979.4308) University of Chile, Santiago, a subbase of the Instituto Geographico Militar pendulum station ** GW-96 (979.429) by E. Kausel (Personal comm. 1967) The harbor value is also consistent with Woods Hole Stations WH-1058** and WH-1020**
Brisbane, Australia	27° 27' 16" S 153° 03' 03" E (H.O. 3546)	11 August 1967	29 End	979.1686	10	Harbor Station connected by Bureau of Mineral Resources to MA 3, a subbase of the Melbourne National Base.
San Francisco USA	Treasure Island Pier #15 37° 49' 8" N 122° 21' 49" W (C. & G.S. 5533)	14 Nov. 1967	30 End	979.9918	11	Harbor Station connected to a Base Station at the University of California, Berkley, Life Science Building (979.9745)
Dunedin, N.Z.	Fuel Dock 45° 52' 53" S † 170° 30' 25" E (H.O. 3394)	22 Dec. 1967	31 End	980.7427	12	Harbor Station connected to Otago University Geology Building Base (GW-89, Dunedin 487750A)** (980.7427)(Cowan & Robertson, 1964)
Wellington, N.Z.	Inter Island Ferry Wharf 41° 17' 01" S 174° 46' 52" E (H.O. 3377)	6 March 1967	32 End	980.2884	13	Harbor Station connected to Wellington A (980.2661) at the D.S.I.R. Seismological Observatory, Wellington (Cowan & Robertson, 1964)

**Base Station location shown in Wollard & Rose (1963) *Location bases are Satellite fix data † approximate location

Table 1. Harbor Base Station data. Eltanin Cruises 28-32

	LD	UD	CHART	DRR	TOTAL DIAL = UD+(CHART x DRR)	TOTAL DIAL x UDC (UDC = 0.4826)	g_{base} mgals (HARBOR STATION)	g_{zero}	Comments
ELTANIN 28-Start Melbourne, Australia 8 March 1967 #6 North Wharf	2700	3600	0	-2.069	3600.0	1737.4	979989.4	978252.0	
ELTANIN 28-Mid Wellington, N. Z. 29 March 1967	2700	4200	-6	-2.041	4212.2	2032.8	980281.7*	978248.9	
ELTANIN 28-End Valparaiso, Chile 26 May 1967 Mooring Jetty #1	2700	2900	+8	-2.108	2883.1	1391.4	979634.0	978242.6	
ELTANIN 29-End Brisbane, Australia	2700	1900	-18.5	-2.128	1939.0	935.9	979168.6	978232.7	
				LD CHANGED FROM 2700 to 1700 AT SEA					
ELTANIN 30-End San Francisco, U.S.A. 21 September 1967 Pacific Ship Repair Yard Pier 36	1700	5600	-80	-2.174	5773.9	2786.5	979995.2*	978225.9 977207.2	Corrected to LD 2700 For LD 1700
ELTANIN 31-Start San Francisco, U.S.A. 14 November 1967 Treasure Island Pier 15	1700	5700	-36.5	-2.174	5779.6	2789.2	979991.8	977204.4	
ELTANIN 31-End Dunedin, N. Z. 22 December 1967 Fuel Dock	1700	7400	+21	-2.174	7354.4	3549.2	980742.7	977194.9	
				LD CHANGED FROM 1700 TO 4000 IN DUNEDIN					
"	4000	2500	+1	-2.174	2497.8	1205.4	"	979538.7	
ELTANIN 32-End Wellington, N. Z. 6 March 1968 Inter Island Ferry Dock	4000	1600	+13	-2.139	1572.2	758.7	980288.4	979531.0	

Table 2. g_{zero} Values Gss2-25 Gravimeter Eltanin 28-32 * Not described in Table 1



Channel	Zero at	1 Scale div =
1 Gravity	50	2 mgal
2 Cross Coupling	50	2 mgal
3 Eotvos	50	2 mgal
4 Roll off level	40	0.5 min
5 Pitch off level	60	0.5 min
6 Course	0	4 degrees
7 Distance	0	0.1 n. mile
8 RMS Acc.	0	1000 mgal
9 Sum (Gravity + Eotvos + c.c.)	50	2 mgal
10 Roll Error, Pitch Error (RMS)	0	--

Figure 1. A section of 12 channel record showing the various data and signal monitoring traces.

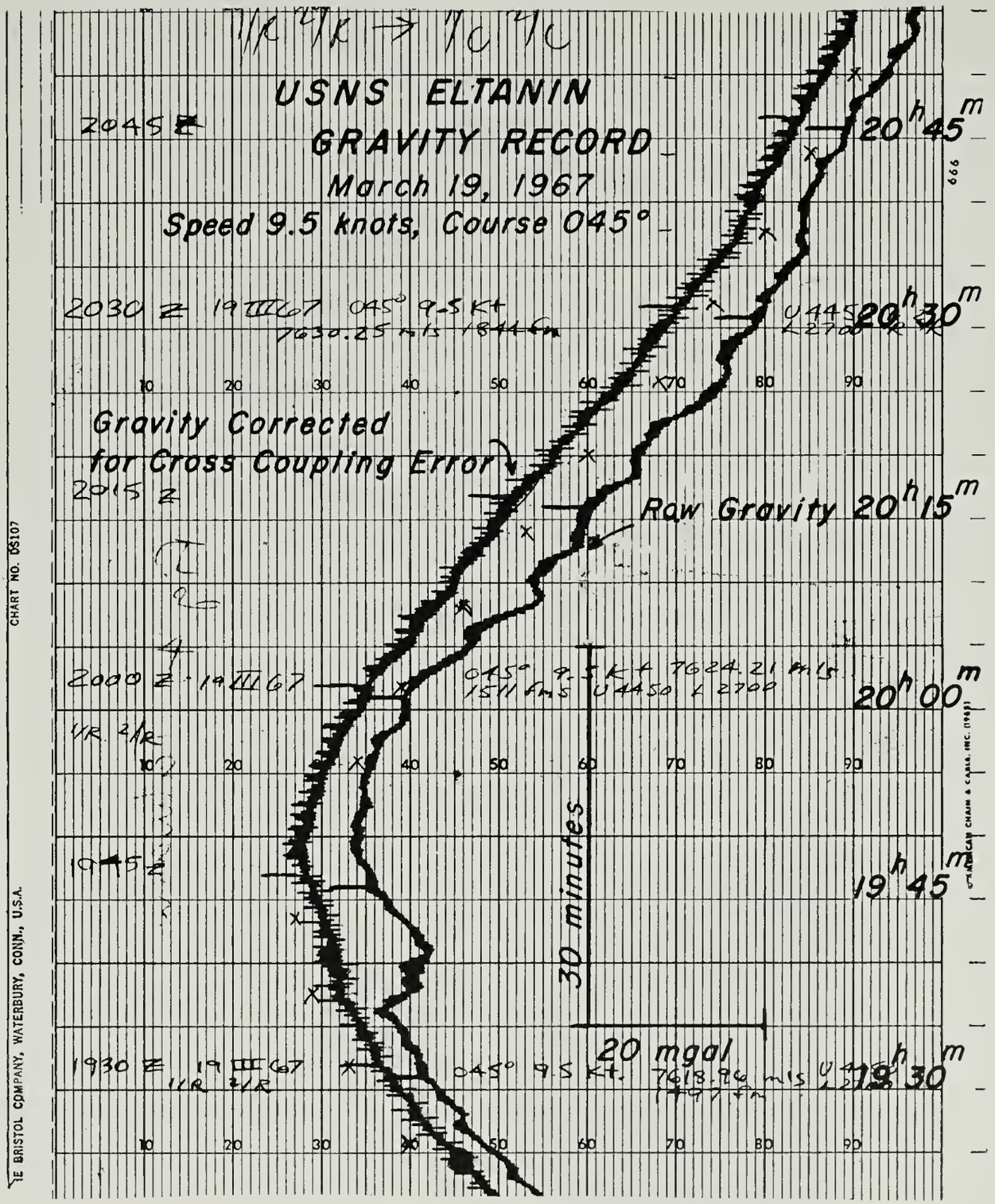


Figure 2. A 75-min long section of the gravity record obtained with the Graf Askania Gss2-25 gravimeter aboard USNS ELTANIN in the Tasman Sea. The gravity trace corrected for cross-coupling error is also shown. Note that the cross-coupling error amounts to about 10 mgal in this record. Note also that the trace corrected for cross-coupling is much smoother than the raw gravity trace.

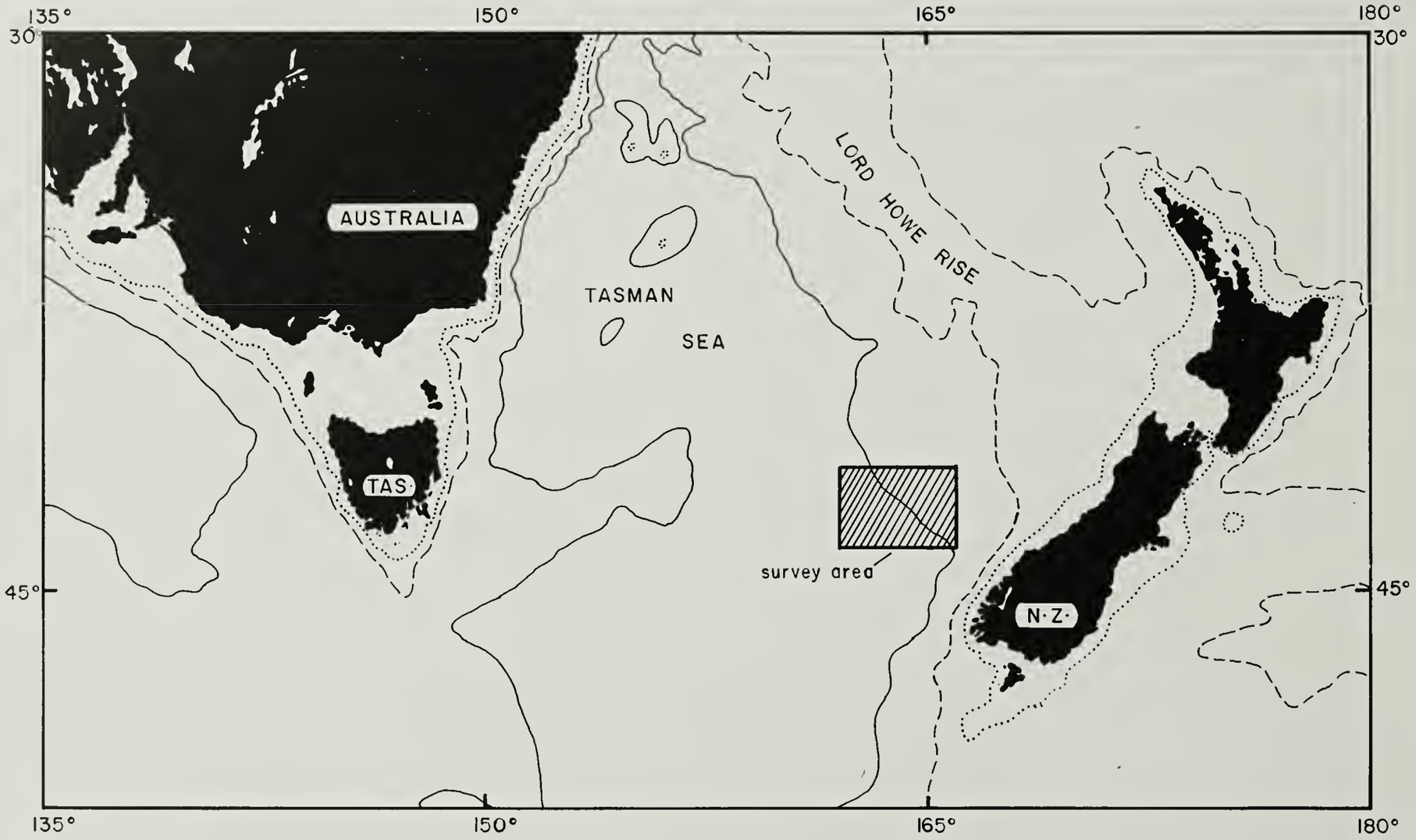


Figure 3. Area of grid survey over the Gilbert Seamount complex.

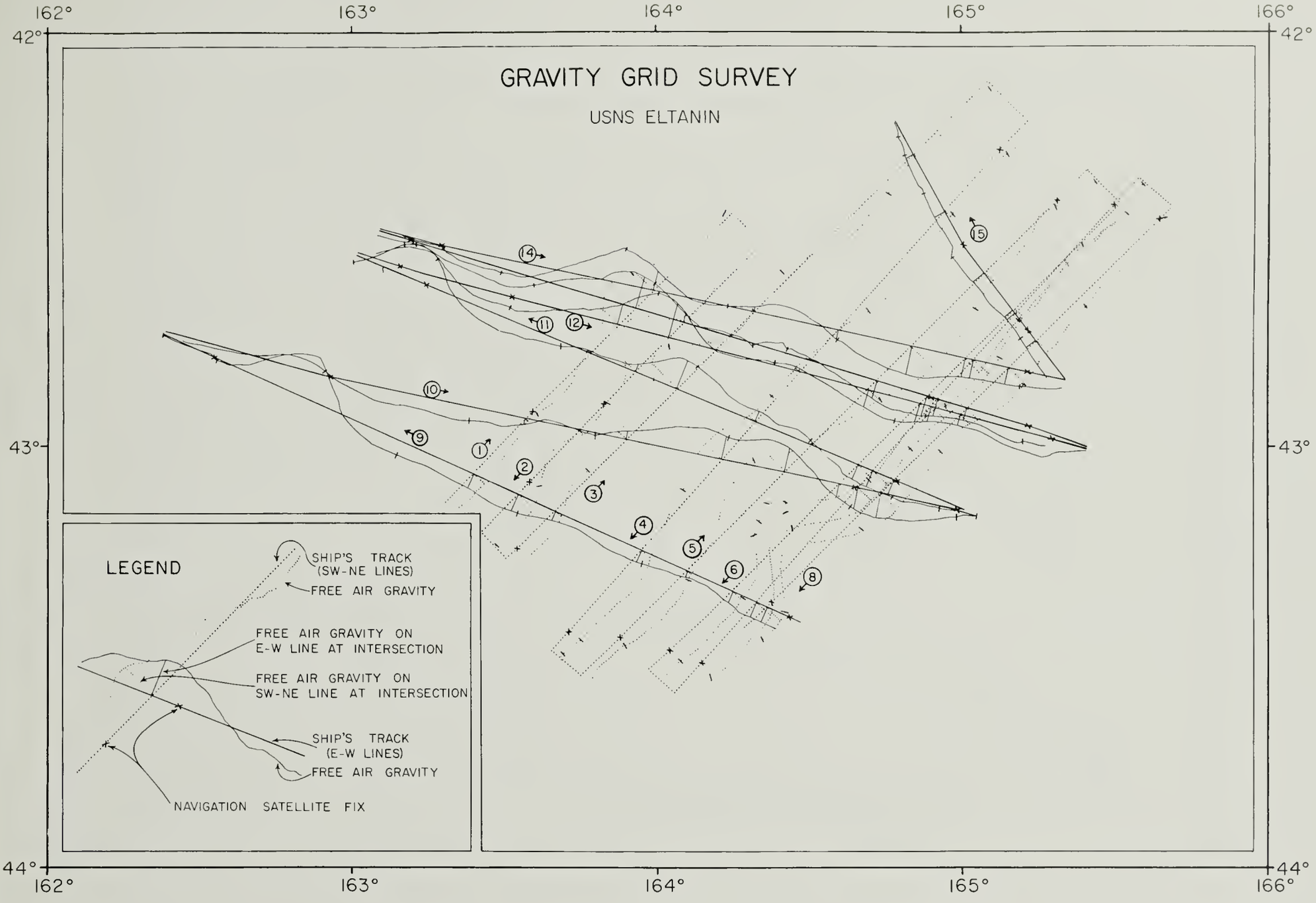


Figure 4. Track lines of Gilbert Seamount survey with free-air gravity plotted in profile along the track. Track lines are numbered sequentially from 1 to 15 (circled # in figure) and arrows indicate direction of travel along track.

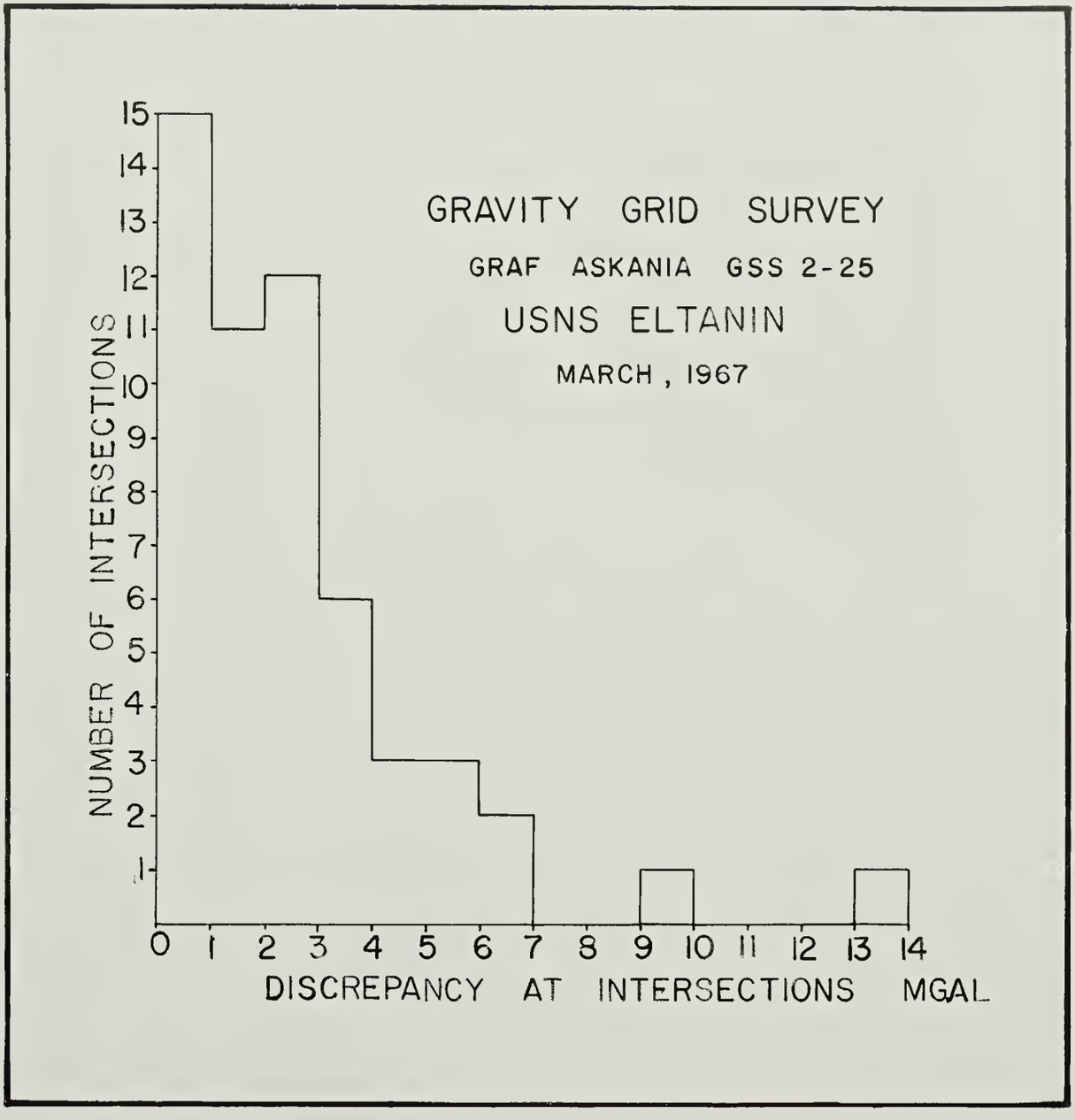


Figure 5. Histogram of discrepancies in the observed gravity at track intersections of the Gilbert Seamount complex survey.

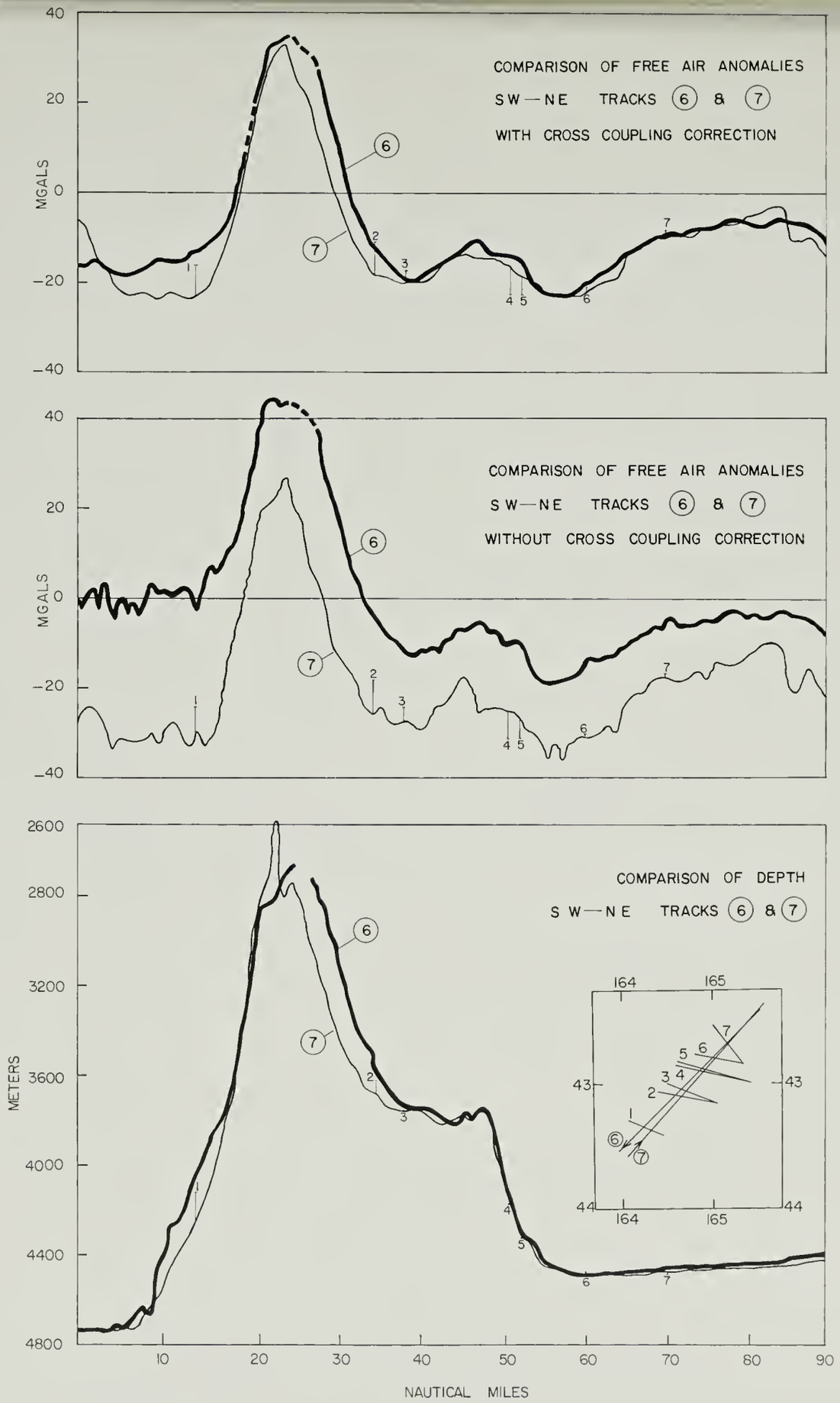


Figure 6. The map near the bottom of the figure shows two nearly coincident tracks, 6 and 7, of USNS ELTANIN in the Tasman Sea. The sea and swell were both from south by southwest. The sea was 1 m and swell was 2.3 m. The two curves at the top of the figure compare the free-air anomaly profiles (with cross-coupling correction applied) along the two tracks. The two curves in the middle part of the figure show the free-air anomaly profiles without the cross-coupling correction. The two curves in the bottom of the figure show the depths along the two tracks. Note that since the two tracks are not exactly coincident some of the differences in measured topography and gravity are real. The vertical lines with notations 1 through 7 denote these discrepancies as measured along cross tracks.

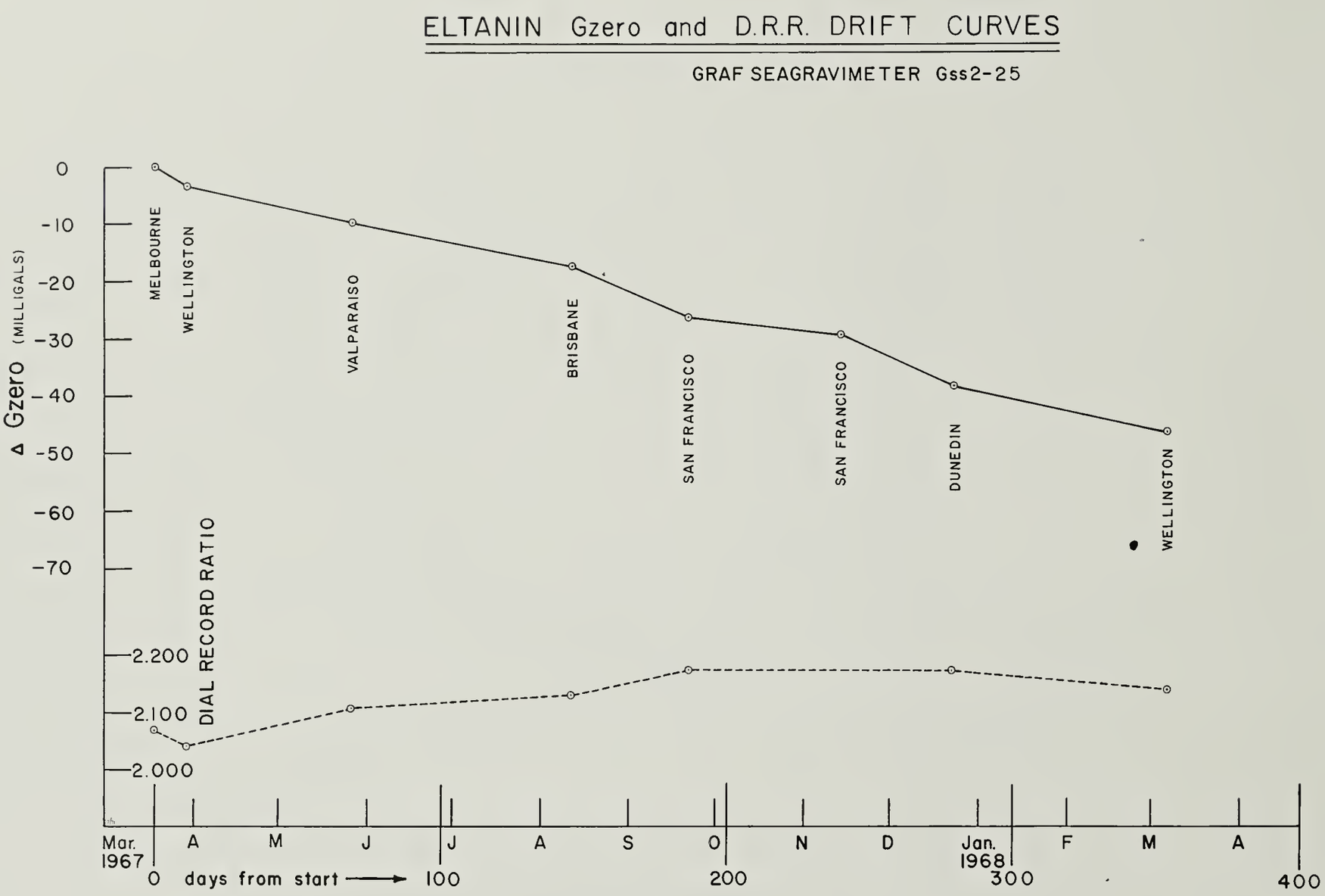


Figure 7. g_{zero} and DRR drift curves for ELTANIN cruise 28-32. See text.

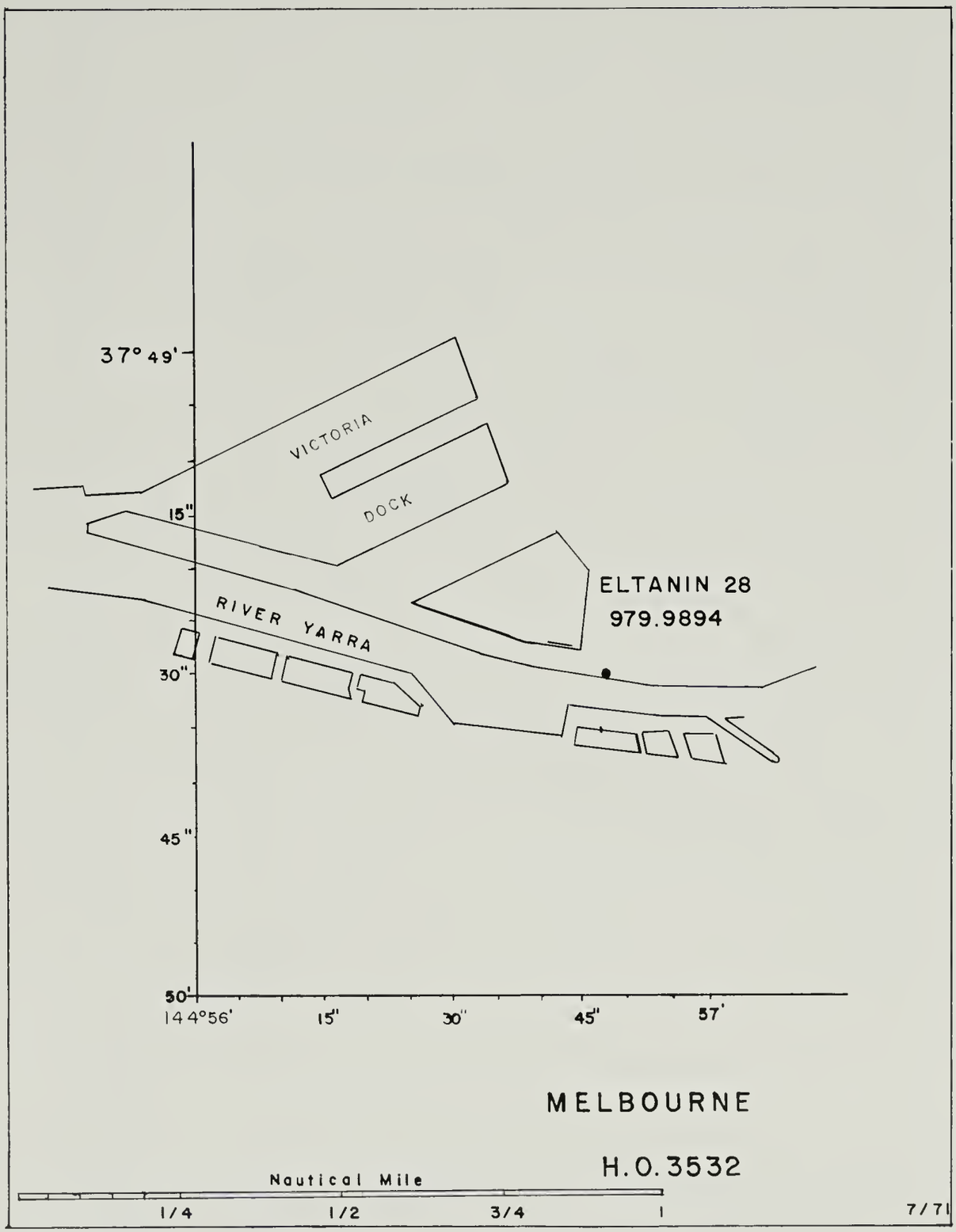

37° 49'
15"
30"
45"
50'
144°56'
15"
30"
45"
57'
VICTORIA
DOCK
RIVER YARRA
ELTANIN 28
979.9894
MELBOURNE
H.O.3532
Nautical Mile
1/4
1/2
3/4
1
7/71

Figure 8

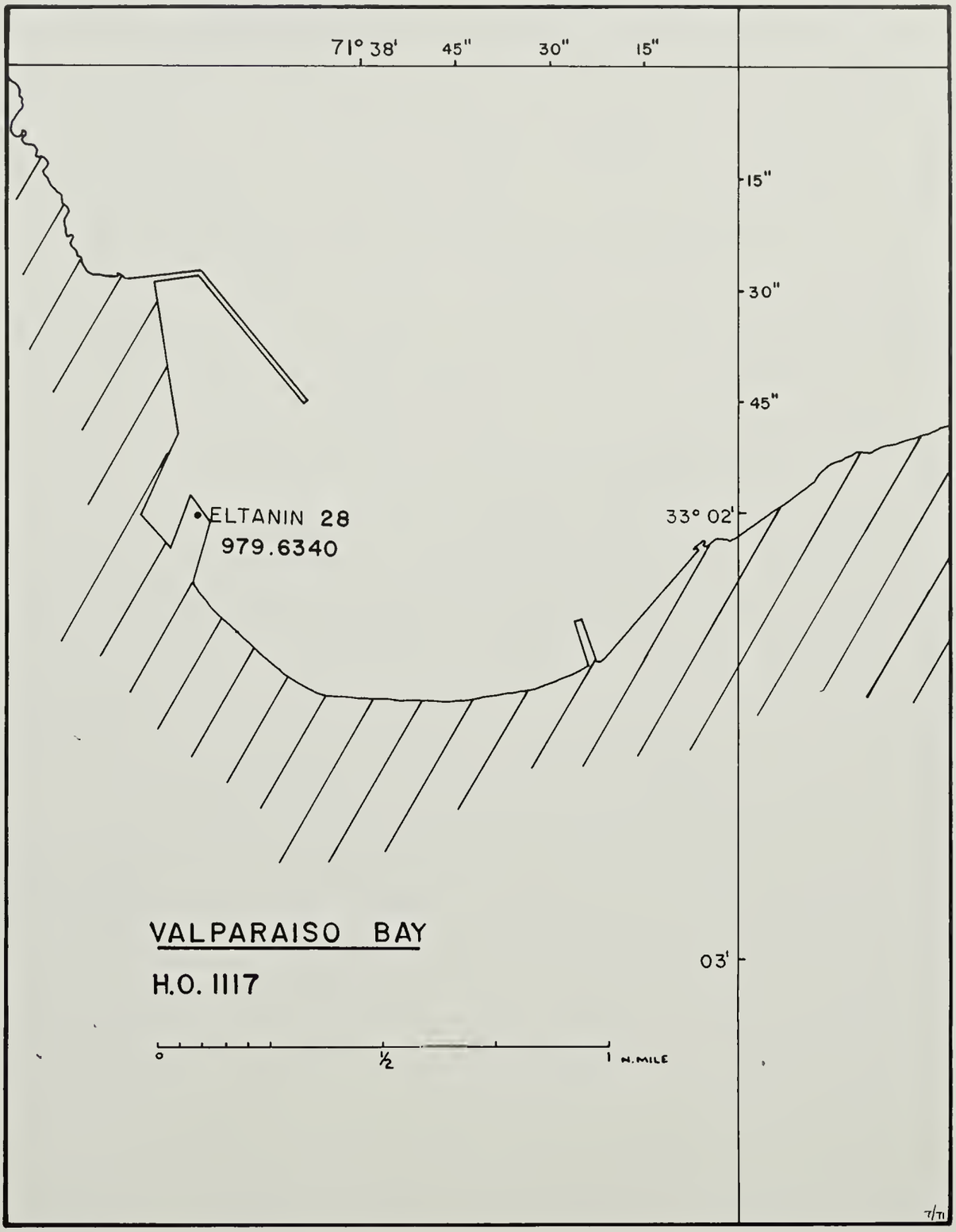

71° 38'
45"
30"
15"
15"
30"
45"
33° 02'
03'
ELTANIN 28
979.6340
VALPARAISO BAY
H.O. 1117
0
½
1 N.MILE
7/71

Figure 9

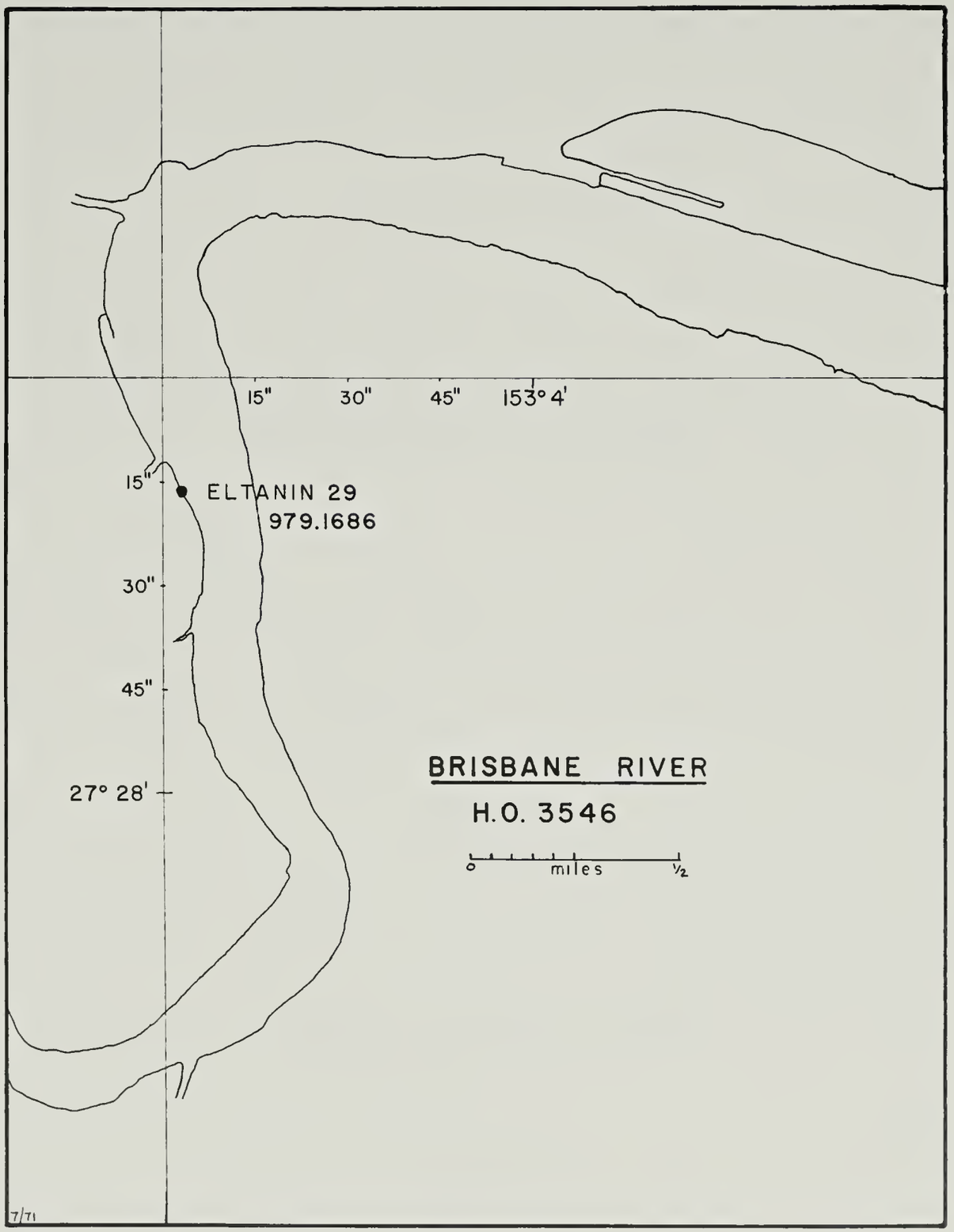

15"
30"
45"
153° 4'
15"
ELTANIN 29
979.1686
30"
45"
27° 28'
BRISBANE RIVER
H.O. 3546
0
miles
½
7/71

Figure 10

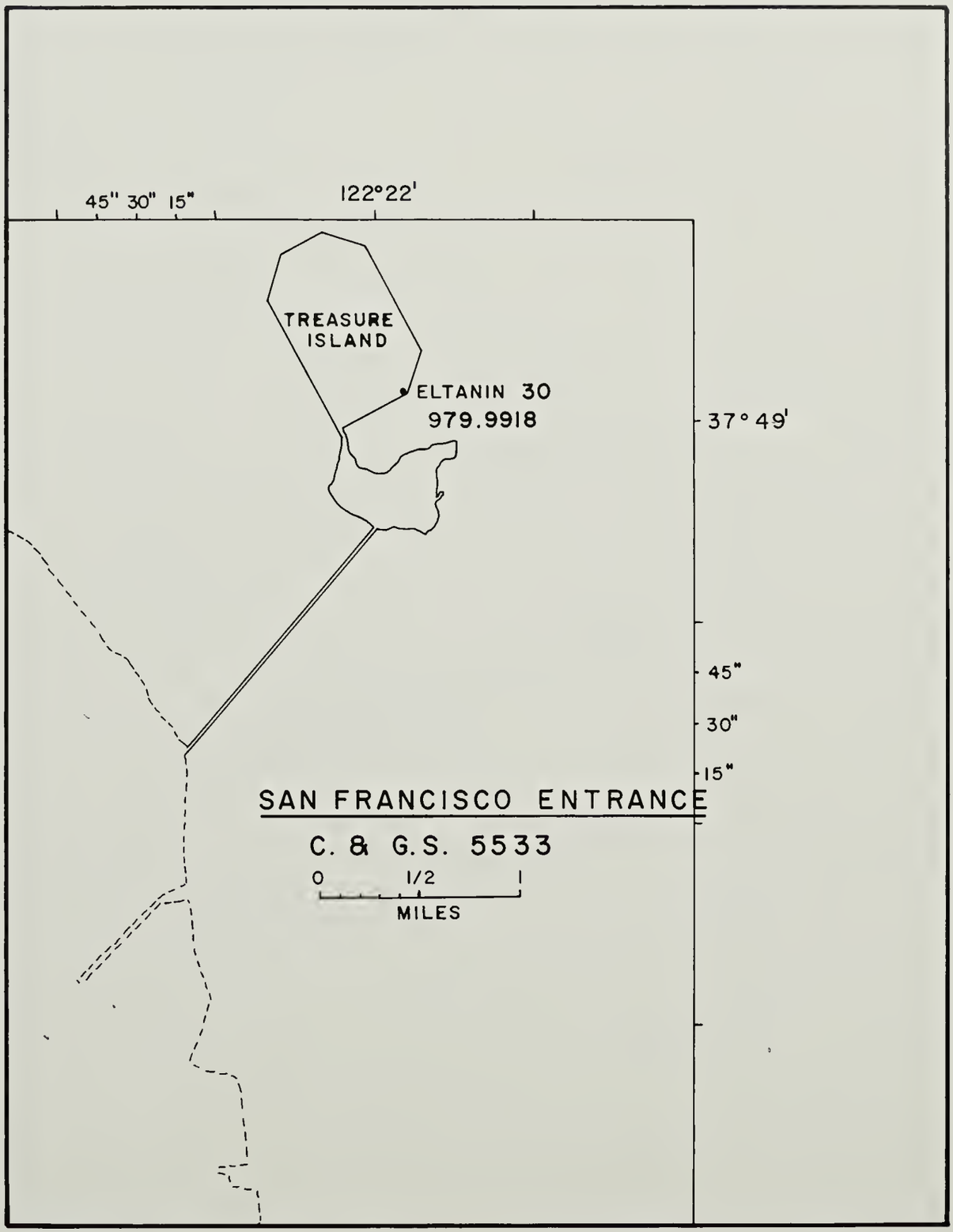

45" 30" 15"
122°22'
TREASURE ISLAND
ELTANIN 30
979.9918
37° 49'
45"
30"
15"
SAN FRANCISCO ENTRANCE
C. & G.S. 5533
0 1/2 1
MILES

Figure 11

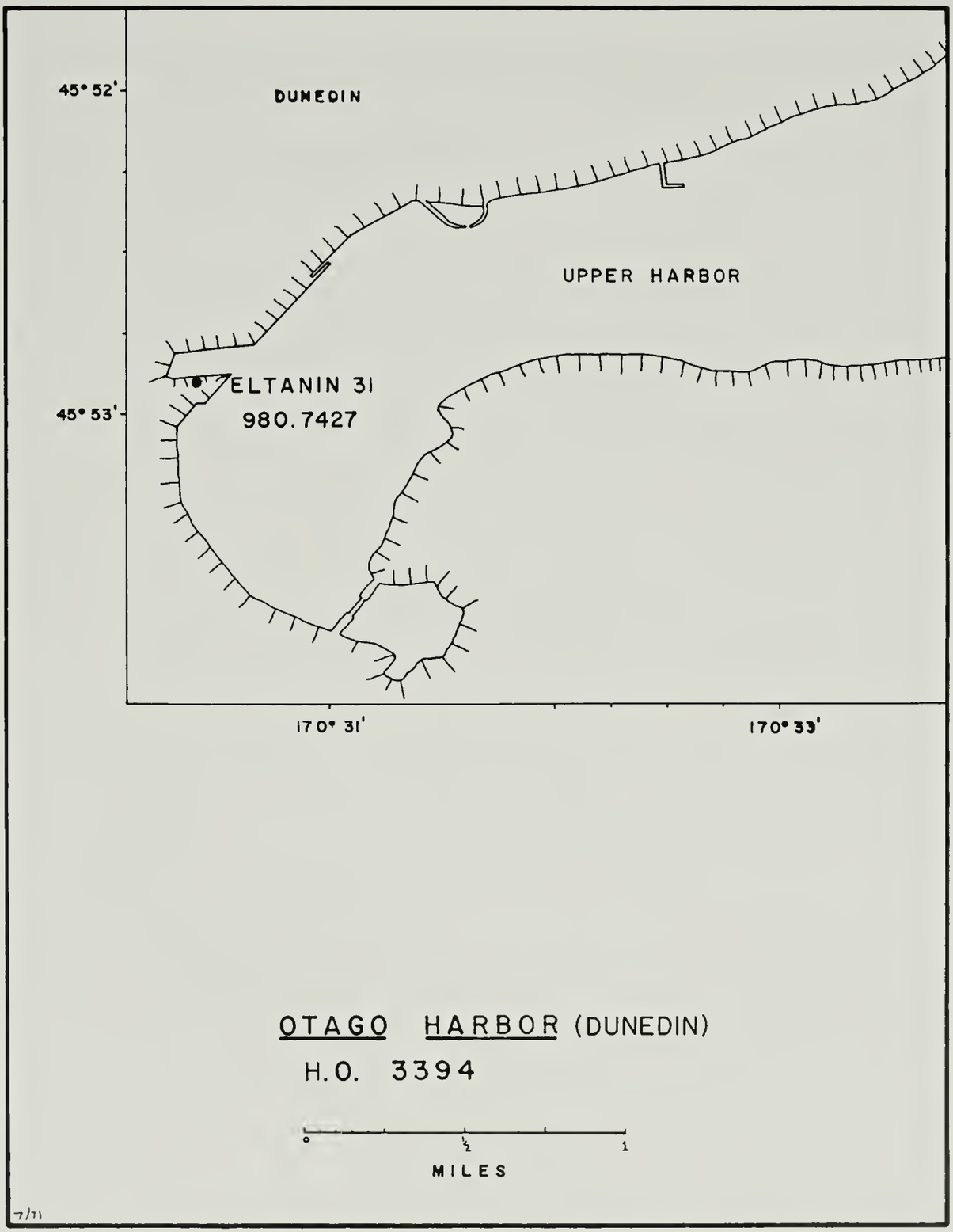

45° 52'
DUNEDIN
UPPER HARBOR
45° 53'
ELTANIN 31
980.7427
170° 31'
170° 33'
OTAGO HARBOR (DUNEDIN)
H.O. 3394
0
½
1
MILES
7/71

Figure 12

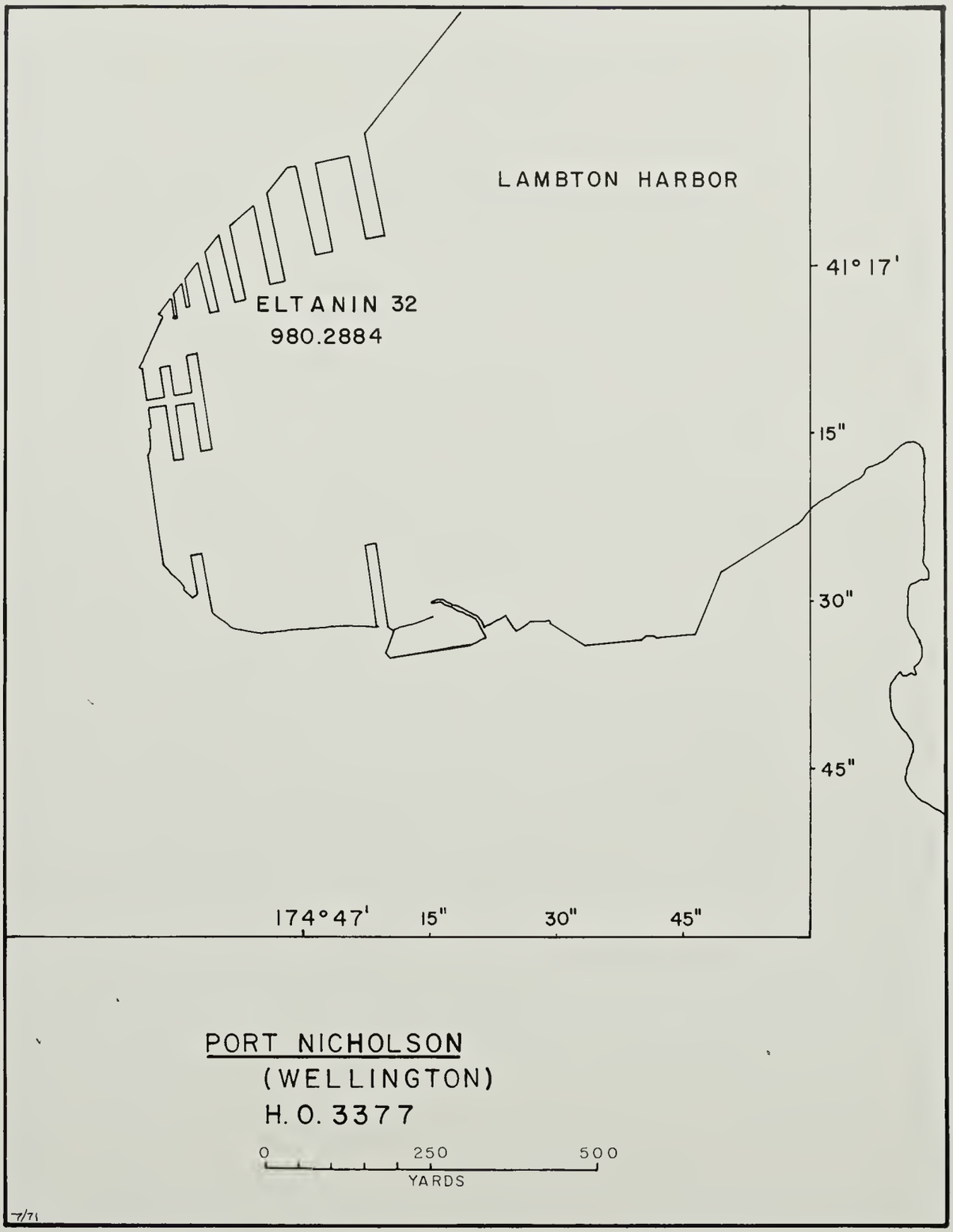

LAMBTON HARBOR
ELTANIN 32
980.2884
41° 17'
15"
30"
45"
174° 47'
15"
30"
45"
PORT NICHOLSON
(WELLINGTON)
H. O. 3377
0
250
500
YARDS
7/71

Figure 13

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